

EXHIBIT 2

19 The deposition of GREGORY BALES, M.D.
20 taken before Pauline M. Vargo, an Illinois
21 Certified Shorthand Reporter, C.S.R. No. 84-1573,
22 at the law offices of Drinker, Biddle & Reath,
23 191 North Wacker Drive, Suite 3700, Chicago,
24 Illinois, on April 1, 2016, at 8:02 a.m.

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1

I N D E X

2

Friday, April 1, 2016

3

WITNESS

EXAMINATION

4

GREGORY BALES, M.D.

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E X H I B I T S

13

BALES EXHIBIT

MARKED FOR ID

14

Exhibit 1 Notice to take Deposition of

7

Gregory T. Bales, M.D.

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Exhibit 2 Defense Expert General Reports

18

of Gregory Bales, M.D.

17

Exhibit 3 Ethicon Advisory Board

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Engagement Letter

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ETH.MESH.09280802 through

ETH.MESH.09280808

19

20

Exhibit 4 E-Mail Chain, Top E-Mail sent

18

4/21/06 from Amy Vie

21

ETH.MESH.07939396 and

22

ETH.MESH.07939397

23

Exhibit 5 6/18/09 E-Mail

20

ETH.MESH.00542924

24

Exhibit 6 2/26/10 E-Mail

21

ETH.MESH.05740486

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7	Exhibit 8	Chmielewski, et al., Study, 61 "Reanalysis of a randomized trial of 3 techniques of anterior colporrhaphy using clinically relevant definitions of success"
10	Exhibit 9	Sand, et al., Study, 64 "Prospective randomized trial of polyglactin 910 mesh to prevent recurrence of cystoceles and rectoceles"
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18	Exhibit 12	Iglesia, et al., Study, 69 "Three-Year Outcomes of Vaginal Mesh for Prolapse"
20	Exhibit 13	Visco, et al., Study, "Vaginal 71 mesh erosion after abdominal sacral colpopexy"
22	Exhibit 14	"GyneMesh II New Mesh Design" 77 ETH.MESH.12009028 through ETH.MESH.12009035
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8	Exhibit 17	Jacquetin, et al., Study, "Total 85 transvaginal mesh technique for treatment of pelvic organ prolapse: a 5-year prospective follow-up study"
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10	Exhibit 18	Jacquetin/Cosson Study, 86 "Complications of vaginal mesh: our experience"
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16	Exhibit 21	Cochrane Review, "Transvaginal 105 mesh or grafts compared with native tissue repair for vaginal prolapse"
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1 (The witness was duly sworn.)

2 GREGORY BALES, M.D.,

3 called as a witness herein, having been first duly
4 sworn, was examined and testified as follows:

5 EXAMINATION

6 BY MS. THOMPSON:

7 Q. Good morning, Dr. Bales.

8 A. Good morning.

9 Q. My name is Margaret Thompson, and I
10 represent the Plaintiffs in the Ethicon MDL. Is
11 that your understanding? And we just met, right?

12 A. That's correct.

13 Q. And we are here this morning to take
14 your deposition regarding your general opinions
15 regarding the Ethicon prolapse devices. Is that
16 your understanding as well?

17 A. That's my understanding.

18 MS. THOMPSON: And we will go ahead
19 and mark the notice as Exhibit 1.

20 (Bales Exhibit 1 was marked for
21 identification.)

22 BY MS. THOMPSON:

23 Q. Have you seen the deposition notice?
24 And this may actually not be the most recent one,

1 but I think the only thing that's changed here is
2 the times.

3 A. Yes, I think I have seen this.

4 Q. Did you bring anything with you in
5 response to the list of items that you were
6 expected to produce?

7 A. I have some items.

8 Q. What did you bring with you?

9 A. So, I have my general report. I guess
10 maybe you have it or you want it marked as an
11 exhibit.

12 Q. I have it also.

13 A. And I have some of the case-specific
14 things which I'm doing later and such.

15 Q. Okay. But nothing else?

16 MR. MORIARTY: Not true. We have
17 invoices.

18 MS. THOMPSON: Okay, good.

19 THE WITNESS: And we have invoices.

20 MR. MORIARTY: But these are all case
21 specific. You can ask him about his invoice
22 for the general report or I can tell you about
23 it. The bottom line is he hasn't sent that
24 bill yet.

1 MS. THOMPSON: Okay. I will just ask
2 him about it then. That's fine.

3 MR. MORIARTY: But these are
4 case-specific invoices.

5 THE WITNESS: I'm a little bit behind
6 in some of the invoice notations.

7 BY MS. THOMPSON:

8 Q. I understand. Dr. Bales, do you have an
9 estimate of the time that you have spent in the
10 case to this point working on your general opinions
11 in the general report?

12 A. Strictly just the general?

13 Q. Yes.

14 A. You know, I would have to tabulate it
15 exactly, but it has got to be around ten hours,
16 approximately.

17 Q. And how much are you charging per hour?

18 A. So my rates for record review and
19 discussions and such, it's 600 an hour and then the
20 depositions, it's 750 an hour.

21 Q. Have you had your deposition taken
22 before in any matter?

23 A. In other cases in the past?

24 Q. Yes.

1 A. Yes, ma'am.

2 Q. How many times?

3 A. Probably 30 or 40 over the last 15
4 years.

5 Q. And what was the nature of those
6 depositions, just in general terms?

7 A. Typically it was single case-specific
8 litigation, you know, on the plaintiff or defense
9 side, where there was most frequently a surgical
10 misadventure of one sort and I was asked to give an
11 opinion about the surgical case and the outcome and
12 things like that.

13 Q. So those would be primarily medical
14 malpractice cases?

15 A. Medical malpractice.

16 Q. And you have testified on both sides?

17 A. I have testified on both sides.

18 Q. And what do you mean -- because I
19 noticed this in your report too. What do you mean
20 by "surgical misadventure"?

21 A. It's just a very global term with if
22 there was any, I guess, allegation of, you know,
23 misuse of an instrument, cutting the wrong
24 structure, any type of surgical complication. So,

1 that's just a very sort of nonspecific term related
2 to any aspect of a surgical procedure where there
3 was some question raised.

4 Q. So the question would be raised as to
5 whether the doctor was at fault with a complication
6 of one kind or another?

7 A. Yes. Typically these are all, yeah,
8 single patient/one doctor type cases and
9 situations.

10 Q. Are all the opinions that you intend to
11 offer contained in the general report that you
12 issued?

13 MR. MORIARTY: Objection to form. Go
14 ahead.

15 Q. Regarding general opinions.

16 MR. MORIARTY: Objection. Go ahead.

17 A. Well, I will answer all the questions to
18 the best of my ability. If you ask me things
19 outside the context of things I have already
20 written, I will certainly offer those opinions, but
21 I think most of my opinions will be consistent with
22 what has been written down and produced.

23 Q. Fair enough. Are your opinions
24 objective?

1 MR. MORIARTY: Objection.

2 A. Yes, I believe my opinions are
3 objective. They are opinions to my best ability to
4 give an opinion based on my own training and to my
5 best degree of medical certainty, if you will.

6 Q. And are your opinions unbiased?

7 MR. MORIARTY: Objection. Go ahead.

8 A. I think my opinions are unbiased.

9 Q. When you prepared -- did you prepare the
10 report yourself?

11 A. I did.

12 Q. And how did you decide what to include
13 and what not to include in your report?

14 MR. MORIARTY: Objection. Go ahead.

15 A. Well, as you can guess, you know, there
16 is a voluminous amount of information that can go
17 into a report like this and there is, you know,
18 years and years of documents, scientific papers,
19 research articles, journal articles and abstracts,
20 et cetera. So, you sort of pick and choose and you
21 try to get a broad array of Level 1 evidence that
22 reflects good science. That's what I try to
23 include.

24 Q. Did you receive materials from defense

1 counsel as you were preparing your general report?

2 A. Well, there was conversations and
3 e-mails about certain papers and abstracts and
4 journals and such and things I looked up on my own.

5 Q. Did you do any kind of literature search
6 on your own?

7 A. Yes. I do literature searches all the
8 time, and I certainly, you know, do literature
9 searches consistently in my occupation, being an
10 academic at the University of Chicago; and
11 certainly I did some literature search and looked
12 back at some of these manuscripts in the
13 preparation of my report.

14 Q. Did you search for particular products,
15 for example?

16 A. Well, in general just we started
17 obviously with sort of pelvic organ prolapse, and
18 I'm familiar with a lot of literature just because
19 I have been reviewing it and I review the Journal
20 of Urology and Urology and Neurourology and
21 Urodynamics. But again, and I looked at some
22 case-specific things regarding the ProLift and, you
23 know, the Ethicon products.

24 Q. Did you receive any internal Ethicon

1 documents, corporate documents?

2 A. Yes, some.

3 Q. Did you ask for any internal corporate
4 documents on any particular issue?

5 A. I didn't specifically ask for any.

6 Q. Why not?

7 A. I think as a doctor, obviously, most of
8 the opinions I'm asked to give are based on my
9 training and my review of the medical and
10 scientific literature. So, things internal to a
11 company in terms of e-mails and things like that,
12 that's probably I guess for my purposes I feel a
13 little less relevant, so I didn't specifically ask
14 for those.

15 Q. Did you think that the internal
16 corporate documents would not alter your opinions?
17 Is that a reason?

18 MR. MORIARTY: Objection.

19 A. No, I didn't really give it any thought
20 like that. As I said, typically when I -- and you
21 asked earlier. I have been involved in other sort
22 of medical malpractice cases and stuff, and so I
23 usually again rely on, you know, articles and
24 peer-reviewed literature, you know, that's in the

1 medical and surgical literature. I don't typically
2 rely on, you know, corporate e-mails or documents
3 like that. So, honestly, I don't think that
4 typically -- I wouldn't think to typically ask and
5 review all of that.

6 Q. So, if Ethicon had information that
7 wasn't contained in the medical literature, would
8 that be important to you?

9 A. Well, that's an awfully broad statement.
10 I guess it would depend on what the nature of that
11 information was. Can you be more specific?

12 Q. We may be later on as I maybe show you
13 some things.

14 A. Okay.

15 Q. When did you first begin working as a
16 paid consultant for Ethicon?

17 A. So, probably, if you include sort of
18 some of the work I did with Ethicon 10 or 12 years
19 ago, I used to train some doctors on doing TVT
20 procedures. That probably started back in 2000,
21 2001, so that would be sort of the introduction.

22 Q. And have you worked as a paid consultant
23 for Ethicon in every year since then?

24 A. So, no, definitely not. Early on when

1 TVT first came online, a lot of doctors wanted to
2 use and learn that technique, and I was one of the
3 earlier doctors and one of the first surgeons in
4 the Chicagoland area doing TVT. So, for the first
5 few years I did do a lot of training and
6 consulting, but then for a number of years I didn't
7 do any.

8 Q. When did you start working for Ethicon
9 as a paid consultant on prolapse devices?

10 MR. MORIARTY: Objection. Are you
11 talking about litigation?

12 MS. THOMPSON: No, I'm not talking
13 about litigation.

14 BY MS. THOMPSON:

15 Q. Why don't you go ahead and tell me what
16 your roles have been with Ethicon outside of
17 litigation.

18 A. Sure, of course. So, essentially both,
19 as we just mentioned, with TVT I did some
20 proctoring and consulting. Essentially it would
21 encompass two things. Doctors would come to the
22 hospital and watch me do procedures and a couple of
23 times I would go and help a doctor at their
24 facility, and I did that early on in 2000, 2001

1 with TVT and then a few times, nowhere near as
2 much, a handful of times with Prolift.

3 Q. So you have acted as a consultant,
4 correct?

5 A. Correct.

6 Q. Have you taught courses as well?

7 A. I don't believe I have ever taught a
8 course.

9 Q. And you proctored individual surgeons?

10 A. And proctored individual surgeons, yes.

11 Q. Have you taught any cadaver labs?

12 A. I don't think so. I have taught cadaver
13 labs but I think for other companies. I don't
14 believe I have ever done that with Gynecare. I
15 don't remember exactly. This goes back ten years,
16 but I don't think so for this company.

17 Q. And have you served on advisory boards?

18 A. Not to my knowledge, not for this, not
19 for what we are discussing, for Gynecare products.
20 I have been on advisory boards for some drug
21 manufacturers and things like that.

22 MS. THOMPSON: Go ahead and mark the
23 report as Exhibit 2, please, and let's go
24 ahead and mark this Exhibit 3.

1 (Bales Exhibits 2 and 3 were marked
2 for identification.)

3 BY MS. THOMPSON:

4 Q. Do you recognize this at all, Dr. Bales?

5 A. No, I don't, although, you know, it may
6 be something that I saw, I don't know, ten years
7 ago. But no, it doesn't look familiar to me as I
8 look at it right now.

9 Q. And will you agree with me that that's a
10 advisory board engagement letter and at least your
11 name is listed as a member of the advisory board,
12 but you don't remember being on a specific advisory
13 board for Ethicon, right?

14 A. I don't.

15 MR. MORIARTY: Objection, form.

16 A. It might be as well that, you know, I
17 went to a meeting or, you know, they had a program,
18 if you will, and then they considered that an
19 advisory board, if you will. But as I said, this
20 must go back a lot of years, so, yeah, no, I'm
21 sorry, I don't remember.

22 MS. THOMPSON: And Exhibit 4.

23 (Bales Exhibit 4 was marked for
24 identification.)

1 BY MS. THOMPSON:

2 Q. This is an e-mail exchange about Prolift
3 Users Forum from 2006. Did you participate in the
4 Chicago Prolift Users Forum, to your memory?

5 A. Yeah, again, I apologize, my memory
6 fails me on some of these things, but this was ten
7 years ago. If it says I was at a forum one
8 evening, then I guess I was, if my name is on this.
9 But as I said, I really, I apologize, I can't
10 remember ten years ago being part of this.

11 Q. When did you start using Prolift?

12 A. Probably about 2006, would be my best
13 guess. I think it came online end of 2005.

14 Q. And if you did participate in this
15 forum, that would be something that you would
16 expect to be paid for by Ethicon, right?

17 MR. MORIARTY: Objection.

18 A. No, not necessarily. I mean, sometimes
19 you participate in things because you wanted to get
20 an opportunity to listen to other of your
21 colleagues and other experts, and so I wouldn't
22 necessarily expect to be paid, although oftentimes
23 if you participate in things like this you would be
24 paid.

1 MS. THOMPSON: Exhibit 5.

2 (Bales Exhibit 5 was marked for
3 identification.)

4 BY MS. THOMPSON:

5 Q. This is an e-mail regarding payment for
6 professional education in 2009 for Prolift in the
7 amount of \$18,000. Does that sound like that's
8 something that was -- that you received and were
9 paid for?

10 MR. MORIARTY: Objection, form and
11 otherwise.

12 MS. THOMPSON: Let me rephrase that
13 question. It was a bad question.

14 BY MS. THOMPSON:

15 Q. Do you recognize this?

16 A. I don't.

17 Q. Were you paid \$18,000 in 2009 for
18 professional education for Prolift?

19 A. I don't remember if I was. I hope I
20 was. It's quite a bit of money, but I don't
21 remember being paid \$18,000 seven years ago.

22 Let me just add again that, you know, I
23 have done proctoring and such for other companies
24 too, and that's why sometimes it's a little hard to

1 remember my specific relationships with each
2 individual vendor, so just to make that
3 clarification, because I apologize if my memory
4 perhaps doesn't serve me well.

5 MS. THOMPSON: That's okay, and
6 Exhibit No. 6.

7 (Exhibit 6 was marked for
8 identification.)

9 BY MS. THOMPSON:

10 Q. Showing you, Dr. Bales, a similar
11 document from 2010. Do you recognize this
12 document?

13 MR. MORIARTY: Objection.

14 A. No, I don't.

15 Q. And do you recall if you were paid
16 \$54,000 in 2010 for professional education?

17 A. No, I absolutely don't recall that at
18 all. Does this reflect -- I mean, is this a check?
19 Again, I'm not sure what this document is. I mean,
20 is this a cancelled check? I mean, I don't recall
21 being paid that amount of money at all. I hope I
22 wasn't supposed to be paid that amount of money and
23 it wasn't given to me. No. I apologize.

24 Q. As an Ethicon consultant proctoring

1 surgeons and now being retained as an Ethicon
2 expert, you would agree with me that you probably
3 know more about the Ethicon prolapse products than
4 the average doctor in the community, wouldn't you?

5 A. Sure. If the average doctor in the
6 community hasn't done these procedures, then I
7 certainly would know more.

8 Q. Even doctors who have done the
9 procedures, because of your academic position, your
10 consulting positions with Ethicon, your knowledge
11 of the literature, wouldn't you agree that you
12 would know more than the typical community doctor?

13 MR. MORIARTY: Objection.

14 A. Sure. On balance I would agree that if
15 it's something that a community doctor is less
16 familiar with and less experienced with, I would
17 know more.

18 Q. I would like to establish the Ethicon
19 products that you actually intend to offer opinions
20 on, so I would like to just go through and tell me
21 whether you feel like your general opinions cover
22 each of these products. Okay?

23 A. I'm at your disposal, counsel.

24 Q. Oh, that's nice to hear.

1 Gynemesh, a piece of mesh used
2 transvaginally.

3 MR. MORIARTY: You mean Gynemesh PS?

4 MS. THOMPSON: Gynemesh PS.

5 A. Are you asking me if I'm going to offer
6 opinions or you would like opinions?

7 Q. No. Do you intend to offer opinions on
8 Gynemesh PS?

9 A. I think I'm here to answer your
10 questions today, which I will do to the best of my
11 ability; and I'm certainly happy to answer and
12 offer opinions on Gynemesh PS, which I'm familiar
13 with.

14 Q. The Prolift devices?

15 A. Correct.

16 Q. Prolift+M?

17 A. Correct.

18 Q. Prosima?

19 A. I've never used Prosima. I won't be
20 able to tell you very much about Prosima. I'm
21 familiar with it, but never personally had any
22 experience using it myself.

23 Q. And I didn't notice any opinions
24 regarding Prosima in your report, so can we assume

1 that you will not be offering opinions on the
2 Proxima device?

3 A. I won't, especially if you don't ask
4 anything more about it, so why don't you cross it
5 out.

6 Q. Thanks. I will cross it out.

7 A. Perfect.

8 Q. So with the products that we just
9 mentioned, is it your opinion generally that each
10 of these products is safe and effective?

11 A. That would be my opinion.

12 Q. And is it your opinion generally that
13 each of these products offer advantages over native
14 tissue repairs?

15 A. Well, they may offer some advantages,
16 and I think we would have to clarify more
17 specifically what we are talking about. I think
18 that's a little bit too broad for me to just say I
19 agree.

20 Q. And it was meant as a broad question.
21 Obviously there will be specific instances, but in
22 general, do the products offer advantages in your
23 opinion over native tissue repairs?

24 A. I think for certain things they offer

1 advantages.

2 Q. Is it your opinion generally speaking in
3 the situations that the benefits would outweigh the
4 risks?

5 A. Yes.

6 Q. What procedures are you currently
7 performing for pelvic organ prolapse?

8 A. So the two primary ones are abdominal
9 sacrocolpopexies, and those can be performed either
10 through an open incision or robotically.

11 Also cystocele repairs, native tissue
12 cystocele repairs or bladder prolapse repairs;
13 posterior colporrhaphy or rectocele repairs; and
14 colpocleisis. I think that encompasses all of
15 them.

16 Q. And what is colpocleisis?

17 A. That's typically used for a patient who
18 is much older and not sexually active and perhaps
19 has associated comorbidities and may not be a good
20 candidate for a lengthy surgical procedure where
21 you more or less close off the vaginal opening.
22 So, you prevent the prolapse, but then the vaginal
23 is significantly foreshortened and essentially
24 closed off, so a patient would no longer have the

1 ability to be sexually active.

2 Q. Is it your opinion that colpocleisis is
3 a good choice for women who are not sexual active
4 and have no plans to be sexually active in the
5 future?

6 A. I think it's one of the choices and
7 certainly should be used again in a woman who is
8 not planning to be -- is either not or not planning
9 to be sexually active.

10 Q. What are the risks of colpocleisis
11 beyond the immediate operative risks?

12 A. Beyond the immediate operative risks?
13 Well, it's a continuum. Obviously I think patients
14 can develop infection and bleeding. Typically that
15 would be more of a risk perioperatively, and you
16 said you want to go kind of past that.

17 The big one is you can still re-develop
18 prolapse, less commonly, but prolapse can still
19 return. Patients may change their mind and get a
20 new boyfriend, so there is always a small concern
21 that the sexual issues may manifest themselves.

22 And the big one, of course, is pain.
23 Any degree of pain and scarring from any surgical
24 procedure in the vagina could manifest itself and

1 create and lead to continued pain and discomfort in
2 the vaginal canal.

3 Q. Have you ever seen chronic pain related
4 to colpocleisis in your practice?

5 A. Sure. Over 21 years I have seen
6 patients who have had that procedure and have pain.

7 Q. How many cases of chronic pain after
8 colpocleisis have you seen in your practice?

9 A. I wouldn't be able to quantify for that.
10 It's a small number.

11 Q. Has it ever been reported in the medical
12 literature, chronic pain after colpocleisis, that
13 you are aware of?

14 A. I would think that it's been reported
15 that after any vaginal procedure there is pain.
16 I can't cite a specific paper where it has
17 specifically said colpocleisis and chronic pain,
18 but I would imagine it's out there.

19 Q. But today off the top of your head, you
20 can't cite to any article that would address
21 chronic pain related to colpocleisis procedures?

22 A. I can't cite a specific paper for you
23 right now.

24 Q. Can you cite a paper with chronic pain

1 from cystocele repairs?

2 A. I'm going to have a hard time citing a
3 specific paper about any questions you ask, because
4 again, I just -- you know, I don't keep specific
5 citations in my head, you know, on a consistent
6 basis. So, probably any question you ask me to
7 give you a specific citation, I'm not going to be
8 able to do that. We will have to -- you know, I
9 would have to get back with you and show you the,
10 you know, the specific citation.

11 Q. How do you keep track of the
12 complications with your patients with procedures
13 that you have performed?

14 A. Well, I work -- so, I work at the
15 University of Chicago, and we have a training
16 program. We have three residents a year. Our
17 residents frequently mine our data, and so we have
18 ongoing databases and stuff.

19 So -- and we have a monthly morbidity
20 and mortality meeting every single month which is a
21 couple hours and is very labor-intensive because we
22 go back through all the cases that have occurred.
23 And again, that's part of our residents' job, is to
24 mine the data and look for complications.

1 So, we are pretty aware of things. I
2 mean, some things potentially get missed, but
3 typically that's probably the best way. And of
4 course, the obvious way are patients coming back to
5 see me every six months or a year, and we keep
6 track in that fashion, of course.

7 Q. But if a resident isn't mining a
8 complication or it hasn't been presented at an M
9 and M conference, there is no ready access to your
10 complication or your complications rate, is there?

11 MR. MORIARTY: Objection. Go ahead.

12 A. Well, I guess the answer -- again, I'm
13 not quite sure I fully understand, but if the
14 patient had surgery and then never came back or
15 never made me aware of a problem, a complication
16 certainly could have occurred that I'm not aware
17 of.

18 Q. Well, for example, when I asked the
19 question about chronic pain after colpocleisis, you
20 said it was very few but you couldn't tell me how
21 many. Would you be able to go back and determine
22 how many patients that you performed a colpocleisis
23 have chronic pain?

24 A. Well, no. I have been practicing for 21

1 years, so I couldn't go back and quantify the
2 number of cases I've done. I've done, you know,
3 well into the thousands in terms of pelvic floor
4 procedures between prolapse and slings and
5 sacrocolpopexies.

6 So, I couldn't give you the denominator
7 and I couldn't give you the numerator unless I went
8 back and contacted the individual every patient.

9 So, again, you asked me for a specific number, and
10 I wasn't able to provide that.

11 Q. What Ethicon prolapse products are you
12 currently using?

13 A. So, I currently primarily used the TVT,
14 which is a sling product, and the TVT obturator,
15 which again is a sling product but the sling is
16 placed in a slightly different fashion. It's not
17 retropubic but it goes through the obturator
18 foramen.

19 Q. So you are currently not using any
20 Ethicon products to treat prolapse?

21 A. I'm not as far as I know. I think many
22 of them are off the market. I'm not sure they are
23 available, but no, I'm not.

24 Q. Do you use Gynemesh PS in your abdominal

1 sacrocolpopexies?

2 A. I used Gynemesh PS for my
3 sacrocolpopexies for a long time. Sometimes I'm at
4 the whim of the University of Chicago. They
5 sometimes they get other products in, so sometimes
6 it's not up to me.

7 Currently the product they have for that
8 application is the AMS product called IntePro, but
9 again, unfortunately, sometimes the doctors don't
10 have any ability to -- to -- weren't involved in
11 the decision-making.

12 Q. How many Prolift procedures have you
13 performed over your career, approximately?

14 A. So, just to clarify, there is total
15 Prolift, there is anterior Prolift and posterior
16 Prolift, so there is sort of three. You want an
17 estimate based on all those procedures put
18 together?

19 Q. Why don't you give me all and then break
20 them down as to how many of each.

21 A. So, I would -- roughly, again it's a
22 rough guesstimate. This goes back again ten years
23 or so. Probably several hundred of -- probably
24 several hundred of all of them, and then the

1 breakdown would be probably 50 percent anterior
2 Prolift, probably 45 percent total Prolift and a
3 very smaller -- a much smaller percentage,
4 5 percent or less of the posterior Prolift.

5 Q. Have you published any peer-reviewed
6 articles regarding using vaginal mesh for prolapse
7 repairs?

8 A. Yes.

9 Q. What are those articles?

10 MR. MORIARTY: Objection.

11 A. Again, I mean, I think my CV -- do we
12 have my CV here? I would have to show you. I
13 don't remember the exact citation.

14 Q. Did you bring your CV?

15 A. I don't think I have a copy of my CV.

16 MR. MORIARTY: We produced it with the
17 report and reliance list.

18 BY MS. THOMPSON:

19 Q. Okay. And do you treat mesh
20 complications in your practice?

21 A. Absolutely. More complications than I
22 care to.

23 Q. What are the most common mesh
24 complications that you treat in your practice?

1 A. So, there is a variety. There is
2 complications of exposures or extrusions where the
3 mesh is sort of exposed and through the vaginal
4 wall, and there is some pain complications that
5 patients see which may or may not always be related
6 to the mesh in any fashion necessarily. But
7 patients come in with again after pelvic organ
8 prolapse surgeries complaining of pain, and
9 obviously the most common, I guess, is a recurrence
10 of the prolapse, where they are coming in, they
11 have already had a procedure and now it's failed
12 and they need additional surgery.

13 Q. What type of pain complications do you
14 treat related to mesh?

15 A. Well, as I said, I don't know if you can
16 sometimes discern what's related to mesh and what
17 isn't, but patients come in and they have pain in
18 their pelvic floor, in their vaginal canal area,
19 and we treat it. We treat it in combination with
20 our physical therapists, and also we have some
21 wonderful pain specialists. So, we treat all
22 gamuts of pain with or without or whether or
23 whether they have not had any kind of mesh
24 procedure.

1 Q. And you are aware of literature with
2 large case series, in the hundreds of patients,
3 with mesh complications of which pain is frequently
4 one, if not the most, common complication, correct?

5 MR. MORIARTY: Objection, form. Go
6 ahead.

7 A. Yeah. Can we read that back? I'm
8 sorry.

9 Q. You are aware of a large body of
10 literature describing hundreds of patients with
11 mesh complications, of which pain is one of the
12 most common presentations, if not the most common
13 presentation, correct?

14 MR. MURIARTY: Objection. Go ahead.

15 A. There is certainly a lot of literature
16 that patients who have had mesh procedures come
17 back and have pain. So, yes, on balance I would
18 agree with that.

19 Q. And are you aware of any articles
20 describing series of patients coming, presenting
21 with pain for other prolapse procedures, native
22 tissue repairs?

23 A. So, again, patients in a series, looking
24 at patients who have pain after they have had some

1 type of surgical procedure, not involving mesh?

2 Q. Right. Are there any articles in the
3 literature that you are aware of that describe
4 large series of patients presenting with pain after
5 native tissue pelvic prolapse repair procedures?

6 A. I think, yes. I think there is
7 obviously significant bodies of literature looking
8 at -- you know, longitudinal studies looking at
9 patients after cystocele repairs, after rectocele
10 repairs, and there is always a small percentage
11 that have pain, so there is definitely --

12 Q. That was not my question.

13 Are you aware of any article in the
14 medical literature that reports case series of
15 chronic pain or any pain related to native tissue
16 pelvic organ prolapse procedures?

17 MR. MORIARTY: Objection, asked and
18 answered.

19 MS. THOMPSON: He answered -- no. Go
20 ahead and answer it because you did not answer
21 that question.

22 A. Again, maybe I'm not understanding it
23 properly, but yes, there is literature that
24 certainly underscores that pain occurs after mesh

1 and non-mesh type pelvic procedures.

2 Q. My question is, is there an article that
3 describes a series of patients who present with
4 pain after native tissue pelvic organ procedures?

5 I'm not talking about a study where the
6 outcome is success rates or were longitudinal. I'm
7 talking about case series of pain complications
8 after native tissue pelvic organ prolapse repairs.

9 MR. MORIARTY: Only pain?

10 MS. THOMPSON: Well, any complications
11 of which pain is -- if pain is mentioned as a
12 significant factor.

13 MR. MORIARTY: Objection, asked and
14 answered. Go ahead.

15 A. Yeah, I think there is -- yes, there is
16 lots of literature looking at non-mesh based, and
17 one of the outcomes they look at and talk about is
18 pain.

19 Q. Okay. I do want you to show me that
20 article that describes series of patients with
21 chronic pain after native tissue prolapse repair,
22 and I will let you look for that at the break and
23 tell me what that is.

24 MR. MORIARTY: Objection. He has no

1 resource with which to do such research.

2 MS. THOMPSON: He can look at his
3 reliance list.

4 MR. MORIARTY: He can pick it out of a
5 reliance list, if he can.

6 MS. THOMPSON: He can Google chronic
7 pain after native tissue pelvic --

8 MR. MORIARTY: He is not doing
9 research as we sit here today, on or off the
10 record.

11 BY MS. THOMPSON:

12 Q. As you sit here today, you are not aware
13 of an article that describes a case series of
14 chronic pain after native tissue repairs, are you?

15 MR. MORIARTY: Objection.

16 A. Again, you are going to have to -- you
17 don't have to raise your voice, but you just have
18 to ask the question differently so I understand it.
19 If you are asking me --

20 Q. All right. My first question was, you
21 are aware of many articles reporting complications
22 of mesh, of which pain is one of the main ones,
23 describing hundreds of patients who are presenting
24 to mainly tertiary care centers with mesh-related

1 complications including pain?

2 A. Yes, but -- well, hold it.

3 Q. So let me ask this question. I'm asking
4 you, are you aware of similar articles that you
5 know -- you know they are there with mesh -- and
6 I'm sorry to raise my voice, but it's frustrating
7 not to get an answer to my question. You know the
8 articles are there with mesh. I'm asking you, are
9 you aware of a similar article with native tissue
10 repairs?

11 MR. MORIARTY: Objection.

12 A. Yes. There is absolutely articles
13 looking at outcomes of non-mesh pelvic surgical
14 procedures that look at outcomes.

15 And in answer to the first part of your
16 question, I'm not aware that there is a specific
17 article that only cites pain. So what you are
18 discussing, of course, is outcomes, and there is
19 outcomes -- and that's the first part of your
20 question -- that there is outcomes of mesh
21 surgeries and patients complaining of pain,
22 hundreds of patients. That's one of the
23 complications. And that same literature exists
24 with non-mesh repairs, and I would be happy -- not

1 today, but I'm sure I could find a reference at
2 some point for you.

3 Q. Okay. I want you to look for that,
4 please, and I would like to be provided with it
5 because I'm certainly not aware of it.

6 Have you removed mesh in your practice?

7 A. Yes.

8 Q. What were the indications for the
9 removal of mesh?

10 A. Typically a -- typically an exposure so
11 that it was -- and the patient was often sexually
12 active and patients who were obviously having some
13 discomfort, both on the part of the patient and
14 obviously the partner.

15 Q. Have you removed mesh for other
16 complications?

17 A. I have removed mesh sometimes when there
18 has been mesh inside the urinary tract, inside the
19 urethra, inside the bladder. So, any mesh in a
20 spot where it doesn't belong, I have removed it.

21 Q. Have you removed mesh for pain?

22 A. Well, in the cases I just mentioned mesh
23 is being removed in part because of pain.

24 Q. So you have only seen pain when it's

1 been accompanied by exposure or erosion; is that
2 your testimony?

3 A. Say that -- is there a question there?

4 Q. You said removed for pain when it is
5 associated with other things and you mentioned
6 exposure, erosion.

7 A. Right.

8 Q. Have you ever removed mesh for pain when
9 there was not exposure or erosion?

10 A. Yes.

11 Q. And what were those situations?

12 A. Well, sometimes if there is a recurrence
13 of prolapse or sometimes if there is a patient can
14 just feel discomfort in a location where we think
15 there is some mesh and we feel that is on our
16 differential list for a source of the pain. So, in
17 some of those situations I remove mesh, and
18 sometimes the mesh has to be removed to do another
19 repair.

20 Q. Is it your testimony that mesh itself
21 doesn't cause pain unless it's associated with
22 something else?

23 A. I think -- I think there is a whole lot
24 of factors that cause pain, so you are going to

1 have -- I'm not quite sure how to answer your
2 question. So, mesh -- maybe rephrase that again.

3 Q. Do mesh devices cause pain?

4 A. Any surgical procedure causes pain,
5 including mesh devices.

6 Q. That wasn't my question. Okay.

7 And you will agree with me with any
8 complication there are factors that are important
9 as well as it occurs or it doesn't occur. For
10 example, the rate at which it occurs is important,
11 right?

12 A. The rate of how often the complication
13 or how quickly it occurs?

14 Q. How often. How often a complication
15 occurs is important, right?

16 A. Sure.

17 Q. And how severe the complication is is
18 important, right?

19 A. Well, I'm the treating doctor, so yeah,
20 any complication is important, and certainly the
21 degree of and severity of the complication is
22 important as well. Everything is important.

23 Q. And the responsiveness to treatment is
24 important, right?

1 A. Sure.

2 Q. Whether you can treat the patient or
3 not, whether they can get better with your
4 treatment is important?

5 A. I would say that's important, sure.

6 Q. And whether or not the complication is
7 permanent or temporary is important, isn't it?

8 A. Well, sure.

9 Q. And is it your testimony here today that
10 considering all those factors that are important to
11 you, pain complications with mesh are no different
12 from pain complications with native tissue repairs;
13 is that your testimony?

14 MR. MORIARTY: Objection, form. Go
15 ahead.

16 A. I think again that's an awfully broad
17 kind of question. I think -- I think there is pain
18 syndromes, and pain issues before surgery are very
19 difficult to treat and there is a lot of factors
20 that can be involved; and so I think you see that
21 sometimes after patients have had mesh surgeries,
22 non-mesh surgeries, associated hysterectomies,
23 everything. So, I think it really has to be a
24 little bit more case specific to sort out what's

1 causing the pain on any individual patient.

2 Q. I want you to answer my question.

3 Is it your testimony considering the
4 factors, the rate, the severity, the responsiveness
5 to treatment, the permanence, that there is no
6 difference between mesh repairs and native tissue
7 repairs regarding pain?

8 MR. MORIARTY: Same objection. Go
9 ahead.

10 A. Again, there is -- I mean, it depends on
11 what we are talking about in terms of the pain.
12 It's just such a broad statement. I think in
13 general, yeah, I think it's probably the same, but
14 I also don't think it is a good question because
15 it's so broad.

16 Q. Do you hold yourself out as an expert in
17 medical device design, Dr. Bales?

18 A. You know, it's funny. Whenever I've
19 taken depositions -- you asked me earlier -- people
20 ask are you an expert. And so, again, I'm a
21 board-certified urologist, so the default answer is
22 always, well, I'm an expert as a urologist, right?
23 So, if you ask me if I'm an expert in other things
24 and you sort of think, well, I'm not

1 board-certified in other areas, I'm a
2 board-certified urologist, but I'm an expert in
3 things that I do very commonly and things that I'm
4 very experienced in.

5 So, again, medical devices, if the
6 medical device is that I've used and very familiar
7 with and I've held in my hand and I've placed into
8 patients and I have done their surgeries, then yes,
9 I guess I'm considered an expert.

10 Q. Have you ever designed a medical device?

11 A. I have not.

12 Q. Are you a biomaterials expert?

13 A. Again, sort of the same answer to the
14 previous question. It depends on what biomaterials
15 I guess we are talking about. But if we are
16 talking about biomaterials that I'm familiar with,
17 including some of the meshes and things that I've
18 implanted in patients and held in my hand and have
19 done hundreds of times, then I guess I'm certainly
20 very familiar and a lot more knowledgeable than 99
21 percent of people.

22 Q. Have you ever looked at an explanted
23 mesh device histologically?

24 A. So, yes, I suspect I have, and I've

1 certainly seen pictures of the histologic
2 presentations, and yes, I'm sure I have been in our
3 pathology department at least a couple times and
4 looked at some of these things. But, you know, it
5 will be very difficult for me to describe the
6 histologic appearance.

7 Q. So you would not consider yourself an
8 expert in pathology?

9 A. I'm very knowledgeable about pathology,
10 but I'm certainly not an expert and be able to
11 describe the specific pathologic features that a
12 pathologist, a board-certified pathologist would be
13 able to do.

14 Q. Are you an expert in regulatory affairs?

15 A. That's such a broad thing, what
16 regulatory affairs are, that again I guess I can't
17 say I'm any kind of expert in regulatory affairs.
18 I'm not sure even what that means.

19 Q. How about industry standards for
20 warnings?

21 MR. MORIARTY: Objection, form.

22 A. So, an expert in industry, you are
23 asking me if I'm an expert in industry standards of
24 warnings.

1 So, again, I'm not -- I'm not aware of
2 what those standards may be, so I guess I'm not an
3 expert in it.

4 Q. We are going to go through your report.
5 I'm going to ask you some questions about some of
6 your opinions contained in the report. If you want
7 to follow along, you are welcome to.

8 On Page 3 --

9 A. Can I just -- let me make sure I'm just
10 working off the same copy. You said you gave it
11 that. Was that Exhibit 2? Was it Exhibit 2?

12 Q. Exhibit 2, correct.

13 A. Can I have it just to make sure? Go
14 ahead. Thank you.

15 Q. At the bottom of Page 3 you start out
16 talking about sacrocolpopexy and then you also talk
17 about uterosacral ligament suspensions and
18 sacrospinous ligament fixations. Do you perform
19 either of those procedures?

20 A. Yes.

21 Q. When was the last time you performed
22 either one and which one?

23 A. A long time ago, a number of years ago,
24 five years ago.

1 Q. So for apical prolapse typically you
2 would use a sacrocolpopexy?

3 A. That's correct.

4 Q. What's the exposure rate for
5 sacrocolpopexy?

6 A. Again, there is studies that the numbers
7 vary slightly, but I guess probably the best
8 citation, since we were talking about citations,
9 there was a multicenter trial out of JAMA, and
10 again, I can't tell you the specific date and
11 journal number, that I think the exposure rate was
12 about 10 or 11 percent in this one particular
13 study, and I think that included seven-year
14 followup. I think it was 10, 10.5 percent, I
15 believe.

16 It was mostly urogynecologists in that
17 paper. It was published about two years ago.
18 That's probably the best paper, I guess. As I
19 said, I apologize I can't give you the exact
20 citation. It was JAMA; I can tell you that.

21 Q. So it's your opinion that the exposure
22 rate with sacrocolpopexy was 10 to 11 percent?

23 A. Well, again, I just answered your
24 question that the literature suggests that it's 10

1 to 11 percent. I don't quote my patients that high
2 a complication rate, but that's the number in the
3 literature. There is other studies that we could
4 tease out that say it's a little lower or a little
5 higher.

6 Q. In the paragraph that you said these
7 transvaginal approaches were not without unique
8 risks, you say your sacral ligament suspensions
9 were known to cause ureteral occlusion and
10 4 percent requiring reimplantation in one study.
11 Those were all noted intraoperatively, correct?

12 A. I believe so because typically, as you
13 know, you check that. After that procedure you
14 want to make sure usually you give some dye to the
15 patients to make sure you see a ureteric stream
16 into the bladder. I can't tell you if 100 percent
17 of those were noted intraoperatively or shortly in
18 the postoperative period.

19 Q. And you would agree that none of those
20 had any permanent sequelae as a result of having
21 the ureteral injury, correct?

22 A. Oh, no, I wouldn't agree with that at
23 all.

24 Q. What evidence do you have that any of

1 those 11 percent of patients had any kind of
2 permanent problems associated with the ureteral
3 occlusion that was corrected at the time of
4 surgery?

5 A. Well, so I have probably done over 200
6 ureteral re-implants in my career, and I can tell
7 you that patients who have ureteral reimplantations
8 often have postoperative problems, including a
9 reflux, they sometimes have a higher risk of
10 pyelonephritis, they sometimes report pain.

11 Q. Are you aware of any of the patients in
12 this series that had any kind of permanent sequelae
13 as a result of those ureteral implantations?

14 A. I am not, but we would have to pull out
15 that paper and see. But again, I'm basing my
16 answer on my own personal experience of several
17 hundred of these ureteral reimplantations.

18 Q. You say that the uterosacral ligament
19 suspensions and sacrospinous ligament fixation had
20 a -- you say unfortunately, both had a success rate
21 of only 60 percent at two years.

22 What is the treatment, the retreatment
23 rate from that, those studies, for the same
24 conditions, the same procedures?

1 A. Cited in those particular papers? Is
2 that what you are asking me?

3 Q. I don't want to look up those papers,
4 but what is generally your knowledge of how many
5 would require retreatment?

6 A. Oh, I think it's very variable, but I
7 think it depends on obviously the severity of the
8 symptoms. Not everybody.

9 Q. Would five percent sound about right?

10 A. I wouldn't be able to -- five percent
11 overall, that only five percent get retreated?

12 Q. Yes.

13 A. That probably is low, but I'm sure you
14 could find -- we would have to pull out the paper,
15 and there are some papers that would suggest it is
16 a low rate and some patients, it's a higher rate.
17 Again, it depends on the severity of the symptoms.

18 Q. In the Barber study that you quoted in
19 your paper, in your opinion, the retreatment was
20 five percent. Would that surprise you?

21 A. I think you are reading it, holding the
22 paper, so it wouldn't surprise me. I think it
23 sounds like you are reading it right from the text,
24 so that was what they found.

1 Q. Are you aware of any comparative trial
2 with -- well, first of all, what Ethicon products
3 are indicated for apical repair, transvaginal
4 apical repair?

5 A. Now or in the past?

6 Q. In the past. There are none now, right?

7 A. As far as I know, there is none. For
8 apical repairs it was the total Prolift.

9 Q. And are you aware of any study with
10 total -- the total Prolift that shows better
11 success rates than uterosacral ligament suspension
12 or sacrospinous ligament fixation, any studies?

13 A. Off the top of my head, I'm not sure
14 better. I think equivalent, but we would have to
15 again pull out some of the papers.

16 Q. So is there any better results from
17 Prolift total compared to the native tissue that
18 you described?

19 MR. MORIARTY: For apical repair?

20 MS. THOMPSON: For apical repair.

21 MR. MORIARTY: Go ahead.

22 A. Again, I'm not aware that there is truly
23 any real good head-to-head randomized, long-term
24 followup. But to answer your question, no, I'm not

1 aware of as I sit here right now.

2 Q. So I'm curious why you would say
3 unfortunately these procedures have a success rate
4 of only 60 percent at two years when Prolift is no
5 better. Is that an objective and unbiased
6 statement in your report?

7 MR. MORIARTY: Objection, form. Go
8 ahead.

9 A. So, again, the statement reads that
10 unfortunately, these two procedures had a success
11 rate of 60 percent in two years. So, that's --
12 again, that's a direct citation from that paper, so
13 I don't know how more unbiased you can be, right?
14 I'm citing this paper and putting in the success
15 rate. So, I'm only just rehashing what again is in
16 the medical literature.

17 Q. Does that paper say "unfortunately the
18 success rate of 60 percent"?

19 A. So you are concerned about the
20 "unfortunately"?

21 Q. Well, I just didn't notice an opinion in
22 your report that said "Unfortunately, Prolift only
23 has a 60 percent success rate."

24 A. Prolift isn't perfect either, and again,

1 that's not the sentence. But I guess if I had said
2 "The Prolift repairs have a success rate of X," I
3 guess I could have put "unfortunately" in front of
4 that. It's unfortunate that any surgical procedure
5 is less than 100 percent, so I guess --

6 Q. But you didn't put that in your report,
7 though, did you?

8 A. It looks like I didn't.

9 Q. In the paragraph -- and unfortunately,
10 we don't have time to go through all the
11 literature, but I do want to highlight some of it.

12 So, in your paragraph, your short
13 paragraph about colporrhaphy --

14 A. Can you tell me where that is?

15 Q. It is on Page 4.

16 A. Okay.

17 Q. You state that high rates of recurrence
18 of 30 percent or more have been reported with
19 colporrhaphy, particularly in the anterior
20 compartment. What's the recurrence in the
21 posterior compartment in the literature?

22 A. I think that again, like most of these
23 things that we are going to be discussing, there is
24 going to be various series where the numbers are

1 going to vary slightly, but it's probably 20 to 30
2 percent, especially if you follow these patients
3 long enough.

4 That's actually, unfortunately, as you
5 know, just not to lecture, but that's actually,
6 unfortunately, one of the problems with our medical
7 literature, is that a lot of these series, the
8 followup is relatively short, so there is not
9 enough papers looking at patients over a long
10 enough period of time where the recurrence rates
11 obviously go up, unfortunately.

12 Q. So it's your testimony that the failure
13 rate of posterior -- native tissue posterior
14 repairs is 20 to 30 percent?

15 A. Yes.

16 Q. Are you aware of any literature where
17 posterior Prolift improves the failure rates in a
18 posterior repair over native tissue?

19 A. I think -- I think some of the
20 literature that's out there shows it to be
21 equivalent. Again, I don't think there is a lot of
22 great literature on long-term outcomes with the
23 Prolift, but I don't know if it's better, to answer
24 your question.

1 Q. So I want to look at some of the --
2 before we look at some of the efficacy literature,
3 let's mark this as the next exhibit.

4 (Bales Exhibit 7 was marked for
5 identification.)

6 BY MS. THOMPSON:

7 Q. You are certainly aware that some
8 doctors feel that mesh complications are more
9 serious than native tissue repair complications,
10 correct?

11 MR. MORIARTY: Objection, form.

12 A. I suspect there is some doctors who feel
13 that way, sure, definitely.

14 O. Do you know Linda Cardozo?

15 A. No.

16 O. Do you know her name?

17 A. I know the name.

18 Q. I'm going to show you an e-mail from
19 2005. When was the Prolift marketed, introduced
20 into the market?

21 A. I think the end of 2005. I don't
22 remember exactly. You might know better than me.
23 I want to say it was sometime in 2005, towards the
24 end of 2005.

1 Actually, here in my report -- let me
2 familiarize myself. I'm sorry I don't remember
3 everything exactly. It says it was introduced
4 March 2005, so I think that's correct.

5 Q. So, this e-mail is from August of 2005.

6 A. August 2005, okay.

7 Q. Do you have that e-mail in front of you?

8 A. Which exhibit number is it?

9 MR. MORIARTY: 7.

10 BY MS. THOMPSON:

11 Q. This e-mail from Linda Cardozo states --
12 and sent to various individuals, including Ethicon
13 employees. Is that your understanding from looking
14 at this e-mail?

15 MR. MORIARTY: Objection.

16 A. Yeah. I mean, again, you just handed it
17 to me, so again, I'm not -- I'm trying to figure
18 out --

19 Q. Dr. Cardozo states that, "It's not that
20 there were a lot of complications, it's severity
21 and type of complications and these were just the
22 perioperative ones. I still have major concerns
23 regarding the erosion rate and possible problems
24 with dyspareunia, and none of these have been

1 addressed in the data which we have been given to
2 date."

3 Would you disagree with Dr. Cardozo that
4 as of August 2005 that these problems had not been
5 addressed?

6 A. I don't -- I apologize.

7 MR. MORIARTY: Objection. Go ahead.

8 A. I don't know Linda Cardozo. I don't
9 want to opine on what this e-mail is exactly, but
10 it sounds like she has some concerns, and she is
11 entitled to have some concerns, but I don't know
12 what she is citing, I don't know what complications
13 she looked at. Again, it's hard for me to
14 interpret what this is without more information.

15 Q. Dr. Bales, I didn't ask you to interpret
16 what Dr. Cardozo was saying or what she was using.
17 I'm asking you, would you disagree with the
18 statement that the problems here discussed had not
19 been addressed in the data provided to date in
20 August of 2005?

21 MR. MORIARTY: Objection. Go ahead.

22 A. Yeah. In August 2005 I'm not aware of
23 what we were discussing at that time, and that's
24 the only reason. In order to agree or disagree, as

1 I said, I have to interpret this a little bit, and
2 again, I just -- I don't remember what -- you know,
3 what specific complications and such.

4 So, again, it's just hard for me to
5 agree or disagree. Again, I'm not trying to be
6 evasive, but it's just an e-mail, it's just so
7 vague. I don't know what she is specifically
8 referring to. She certainly has some concerns.

9 Q. I know she has concerns. I'm asking
10 you. In August of 2005, shortly before you started
11 using the Prolift, did you have any concerns?

12 A. Counsel, I have concerns about any
13 surgical procedure I do.

14 Q. Well, you didn't have enough concern
15 that prevented you from using the product, right?

16 MR. MORIARTY: Objection, form. Go
17 ahead.

18 MS. THOMPSON: Well, if he would
19 answer my questions it would be easier.

20 MR. MORIARTY: He is answering your
21 questions. You may not like the answers.

22 MS. THOMPSON: Oh, I like the answers
23 just fine.

24 MR. MORIARTY: Okay. So let's just --

1 BY MS. THOMPSON:

2 Q. Dr. Bales, you began using the Prolift
3 in early 2006, I believe you said, correct?

4 A. I think that's correct.

5 Q. If you had had concerns like
6 Dr. Cardozo, you wouldn't have used it, right?

7 MR. MORIARTY: Objection.

8 A. No. That's completely incorrect. And
9 actually, if you look just a little further, she is
10 even -- I mean, well, it's kind of funny. As I
11 said, I don't want to try to interpret this too
12 much because I've just said I can't, but if you
13 read another sentence down, she said she wishes to
14 avail herself of the training opportunity.

15 So -- so, it's funny. It's a little bit
16 almost hypocritical. If we interpret this -- and
17 as I said, I don't know her and I don't want to
18 speculate, but it seems like she is saying, listen,
19 I'm concerned that there is a lot of problems, but,
20 hey, if we are going to do a -- if we are going to
21 get started on a trial, I want to avail myself of
22 that training opportunity.

23 So, I don't know. It seems almost it's
24 a little disingenuous to say you're concerned and

1 then say but I want to get started using it. So
2 that's why, again, it is hard for me to interpret
3 this.

4 Q. Was there any efficacy data when you
5 began using that Prolift device in 2006?

6 A. There is never -- any new procedure we
7 do, there is never any real good efficacy data on
8 any new procedure.

9 Q. I want to go over some of the literature
10 on the colporrhaphy and the efficacy, and I'm
11 using -- I'm going to start with the Weber article
12 that you cited in your report; and you are aware,
13 Dr. Bales, that the Weber article from 2001 was
14 re-analyzed with modern definitions of prolapse and
15 success by Chmielewski, correct?

16 A. Yes.

17 Q. I'm curious why you cited the 2001 Weber
18 article rather than the 2011.

19 A. So, I guess if that's a question, again,
20 it's impossible to cite every article that's out
21 there, so I picked certain ones.

22 MS. THOMPSON: And if you could mark
23 this as Exhibit No. 8. I just have two copies
24 of this, sorry.

1 (Bales Exhibit 8 was marked for
2 identification.)

3 BY MS. THOMPSON:

4 Q. Are you familiar with this paper,
5 Dr. Bales?

6 A. Yes.

7 Q. And let's just go to the conclusions,
8 and could you read the last paragraph for us.

9 A. Would you like me to read the entire
10 last paragraph?

11 Q. Um-hmm?

12 A. Starting "In conclusion"?

13 Q. Um-hmm.

14 A. "In conclusion, this study provides
15 further evidence that success after prolapse
16 surgery depends heavily on the criteria that are
17 used to define treatment success. In the
18 frequently cited study by Weber, et al., when
19 strict anatomic criteria were used, success was
20 low. However, when contemporary, clinically
21 relevant criteria for success were used, treatment
22 success was considerably better, with only 11
23 percent of subjects experiencing anatomic
24 recurrence beyond the hymen, 5 percent of subjects

1 experiencing symptomatic recurrence, and no
2 subjects requiring surgery for recurrence or
3 complications at one year.

4 "Given this and the excellent safety
5 profile of traditional vaginal prolapse surgery,
6 we conclude that anterior colporrhaphy that is
7 performed in conjunction with other native tissue
8 repairs is appropriate as a primary treatment of
9 symptomatic anterior vaginal prolapse."

10 Q. And my question is, why did you cite the
11 Weber paper in 2001 when this paper is more recent
12 and more authoritative?

13 MR. MORIARTY: Objection, form and
14 asked and answered. Go ahead.

15 Q. Well, let me just say, is your -- is
16 your -- the reason that you didn't use this paper
17 is you just can't cite everything? I think that
18 was your answer before. Is that it --

19 A. Yeah --

20 Q. -- why you chose the old paper?

21 A. Yeah, I apologize. I chose -- I tried
22 to choose a appropriate synopsis of a variety of
23 different things. I'm sure there are other papers
24 that I missed that might be more current or what

1 have you. But again, there is a lot of literature
2 that's out there. I had to cite certain things.

3 Q. And you will certainly agree with me
4 that a 5 percent symptomatic recurrence and no
5 subjects requiring additional surgery is very
6 different from the recurrence of 30 percent or more
7 that you cite in your paper, right?

8 A. So you are asking if 30 is different
9 than 5, and the answer is yes, 30 is different than
10 5.

11 Q. And you believe that you reported
12 objectively on the success rates with colporrhaphy?

13 A. Yes. I think this paper, actually, this
14 later information actually is somewhat of an
15 anomaly; and I think most -- most papers and again,
16 there is, you know, lots of data and lots of
17 studies that aren't cited here, would suggest that
18 the number is higher than 5 percent. And again,
19 there is going to be a variety based on the paper.

20 Q. Okay. Well, let's go to one of the
21 other papers that you cited and Fed Ex'd. I
22 thought this one was apparently really important,
23 and I just have two copies of this one, I'm sorry
24 to say.

1 We will mark that as the next exhibit,
2 9, and you are familiar with this paper because you
3 cite it in your paper, in your report, right?

4 A. Yeah. Peter --

5 MR. MORIARTY: It's so big you can
6 hardly miss it.

7 MS. THOMPSON: The first paper was
8 that -- I have two of these that are large
9 size. The first one was from Duke. I thought
10 they just thought it was from Duke that it was
11 important.

12 THE WITNESS: These guys work with us.
13 They are part of the University of Chicago
14 now, Peter Sand and Roger Goldberg and Janet
15 Tomezsko.

16 (Bales Exhibit 9 was marked for
17 identification.)

18 BY MS. THOMPSON:

19 Q. I actually want to turn your attention
20 to that discussion of this paper --

21 A. Okay.

22 Q. -- by Dr. Shull. Do you know Dr. Shull?

23 A. I don't.

24 Q. Have you seen Dr. Shull cited in Ethicon

1 documents frequently?

2 A. I think I'm familiar with that name. He
3 is not a urologist; he is a urogynecologist. I
4 think I have seen the name.

5 Q. And have you looked at his comment
6 regarding Dr. Sand's paper, you will see that, I'm
7 going to read to you from the comment, "They knew
8 from their own experience as well as the experience
9 of other surgeons that the use of nonabsorbable
10 mesh is associated with an unacceptably high rate
11 of complications. This is not surprising when one
12 considers operating in a clean-contaminated field,
13 the vagina."

14 And this paper used an absorbable mesh,
15 correct, not polypropylene?

16 MR. MORIARTY: Objection, form. Go
17 ahead.

18 A. Yeah, I guess I'm just -- you just
19 read --

20 Q. Did this paper use absorbable mesh?

21 A. Yes, correct.

22 Q. Okay. And did Dr. Shull describe --
23 well, I'm going to read you something. Tell me if
24 this is what the paper states. "In our most recent

1 series of over 300 women" --

2 MR. MORIARTY: I'm sorry. Can you
3 please tell us what you are reading from?

4 MS. THOMPSON: Several factors are
5 related to long-term outcome.

6 MR. MORIARTY: We need to know where
7 you are reading from.

8 MS. THOMPSON: I'm telling you. In
9 the comments section it says several factors
10 are related to long-term outcome, and I'm
11 reading from number one.

12 BY MS. THOMPSON:

13 Q. "In our most recent series of greater
14 than 300 women in whom we specifically repaired the
15 transverse portion of the pubocervical fascia,
16 along with other defects, the rate of anterior
17 compartment persistence or recurrence was 7 percent
18 for prolapse halfway to the hymen and 2 percent for
19 prolapse to the hymen. We used no mesh."

20 You will agree with me that a success
21 rate of 7 percent halfway to the hymen and 2
22 percent for prolapse to the hymen with a native
23 tissue repair is significantly less than the 30
24 percent that you cited in your expert report,

1 correct?

2 MR. MORIARTY: Objection, form.

3 A. I think 30 percent is a more accurate
4 representation of what the experience is nationwide
5 for sure, as you just read.

6 Dr. Shull is a very accomplished
7 urogynecologist who I don't know personally, but
8 he is citing his own work, and he obviously gets
9 excellent results with his native tissue repair.

10 I'm not sure how long these patients
11 were followed, but he cites 7 percent in his
12 experience, and 7 percent is a lower number than
13 30 percent.

14 MS. THOMPSON: I've just handed
15 another paper. Would you mark this as Exhibit
16 No. 9.

17 MR. MORIARTY: 10.

18 (Bales Exhibit 10 was marked for
19 identification.)

20 BY MS. THOMPSON:

21 Q. Dr. Bales, are you familiar with
22 Exhibit 10, a paper by Funk and Visco?

23 A. Yes.

24 Q. And this paper looked at 27,809 anterior

1 prolapse surgeries. The 5-year risk of surgery for
2 recurrent prolapse was similar between vaginal mesh
3 and native tissue groups with 10.4 percent
4 recurrent with mesh and 9.3 recurrent with native
5 tissue. You will agree that those numbers are
6 significantly less than the 30 percent that you
7 cited in your expert report, correct?

8 A. Yes.

9 Q. And that there was -- in this paper of
10 27,000-plus patients, there was no difference
11 between mesh and native tissue repairs, correct?

12 A. Yes, it looks like they are, right,
13 essentially similar.

14 MS. THOMPSON: And Exhibit No. 11.

15 (Bales Exhibit 11 was marked for
16 identification.)

17 BY MS. THOMPSON:

18 Q. Are you familiar with this paper by
19 Dr. Oversand?

20 A. Yes.

21 Q. And Dr. Oversand had a satisfaction rate
22 of 94 percent of patients with native tissue
23 anterior repairs and a 5-year reoperation rate of
24 2.6 percent in one group and 8.9 percent in the

1 other group and concluded that POP surgery using
2 native tissue repair entails low reoperation rates
3 with excellent subjective and objective results and
4 should be the primary -- should be the first choice
5 in treating primary POP providing use of adequate
6 surgical technique as was published in 2013.

7 That's certainly different from what you
8 cited in your expert report, correct?

9 MR. MORIARTY: Objection, form.

10 A. Again, the numbers are lower in this
11 paper in terms of the recurrence rates, yes.

12 MS. THOMPSON: And Exhibit No. 12.
13 (Bales Exhibit 12 was marked for
14 identification.)

15 BY MS. THOMPSON:

16 Q. Are you familiar with this paper,
17 Dr. Bales?

18 A. Yes.

19 Q. And this is the three-year followup on
20 Dr. Iglesia's original Prolift study, correct?

21 A. Yes. I'm just trying to see if they are
22 all Prolift people, to make sure on the methods.

23 Yes, okay.

24 Q. And you are aware that this study was

1 halted prematurely because of 15.6 percent mesh
2 erosion rate which exceeded their predetermined
3 limit, correct?

4 A. Yes, it is prematurely halted.

5 Q. And -- but they continued to follow the
6 patients for efficacy, correct?

7 And these authors concluded that there
8 was no difference in three-year cure rates when
9 comparing patients undergoing traditional vaginal
10 prolapse surgery without mesh with those undergoing
11 vaginal colpopexy repair with mesh, correct?

12 A. Right. You can read their conclusion.

13 They saw no difference.

14 Q. And this paper wasn't included in your
15 expert report, was it?

16 A. I don't think so.

17 Q. And it is still your opinion that
18 colporrhaphy has a recurrence of over 30 percent
19 and that mesh repairs are preferable?

20 MR. MORIARTY: Objection, form.

21 A. It's my opinion that, yeah, anterior
22 recurrence rates are as high as 30 percent.

23 Q. Or you said 30 percent or more, not as
24 high as 30 percent.

1 A. As high as 30 percent or more than 30
2 percent.

3 Q. So your opinion is the recurrence, high
4 rates of recurrence of 30 percent or more with
5 colporrhaphy?

6 A. Yes. If you follow patients long
7 enough, yes, I believe that's an accurate
8 statement, even though there is certainly papers
9 that we can tease out of the literature, as we are
10 doing, that show the recurrence rate is lower.

11 Q. But you didn't mention any of those
12 articles in your expert report, correct?

13 A. The bibliography on the expert report,
14 as you've stated now several times, did not include
15 every single paper in the literature.

16 Q. And I'm actually using many of your
17 papers that you just took the information that was
18 favorable to your opinions, correct?

19 A. I appreciate that very much, counsel.

20 Q. Correct?

21 A. Correct.

22 MS. THOMPSON: Another big one,
23 Exhibit 13.

24 (Bales Exhibit 13 was marked for

1 identification.)

2 BY MS. THOMPSON:

3 Q. We are going to go to the next paragraph
4 in your report.

5 MR. MORIARTY: Well, wait. Are you
6 asking him about 13 or his report? Because I
7 want to take a second to look at this.

8 MS. THOMPSON: Sure, go ahead. This
9 is applicable to the next paragraph, but feel
10 free to take a look at it.

11 And I didn't realize this article was
12 highlighted. I apologize for that.

13 BY MS. THOMPSON:

14 Q. Dr. Bales, are you familiar with this
15 paper from Duke published in 2000?

16 A. Yes.

17 Q. It's titled "Vaginal mesh erosion after
18 abdominal sacrocolpopexy." In your last paragraph
19 you say, "Due to the shortcomings associated with
20 these native tissue surgical repairs, surgeons
21 began using mesh for the treatment of POP. It
22 started with the use of mesh in ASC. After that,
23 in the 1990s, pelvic surgeons began to use mesh
24 transvaginally, in order to take advantage of the

1 fewer complications which result from the use of
2 that approach."

3 You didn't cite anything for that
4 opinion that pelvic surgeons were using mesh
5 transvaginally to take advantage of fewer
6 complications. I wanted you to look at the Visco
7 paper that did use mesh transvaginally, and
8 Dr. Visco and his colleagues found an unacceptable
9 rate of erosion when they used transvaginal mesh,
10 correct?

11 MR. MORIARTY: Objection, form.

12 A. I think --

13 Q. I'm reading. "In conclusion, both
14 abdominal sacral colpopexy and abdominal-only
15 sacral colpoperineopexy appear to have a low and
16 comparable rate of vaginal mesh erosion."

17 Their erosion rate was 5.5 percent
18 overall, 3.2 percent in the abdominal
19 sacrocolpopexy group.

20 "Vaginal placement of mesh results in
21 an unacceptably high rate of mesh erosion and a
22 shorter time to erosion than any other form of
23 vault suspension in this study."

24 And these authors abandoned the use of

1 transvaginal mesh because of the high exposure
2 rate, correct?

3 MR. MORIARTY: Objection, form.

4 A. The comparison here, though, was --

5 Q. Just answer my question. They abandoned
6 the use of transvaginal mesh because of the high
7 exposure rate, correct?

8 MR. MORIARTY: One of my objections
9 was form because your question was several
10 minutes long, so I'm not sure what the
11 question was.

12 BY MS. THOMPSON:

13 Q. The question is short. These authors
14 abandoned the use of transvaginal mesh because of
15 the high complications rate, correct?

16 MR. MORIARTY: Objection.

17 A. Does it say it here? Does it say they
18 abandoned it? I don't see that it says they write
19 "we have abandoned use of mesh." So, I'm not sure
20 how we -- and again, I'm not reading it. Did they
21 say they've abandoned? If they say they have,
22 then I guess we could take that at face value, but
23 I'm not sure it says it here. So, why do you think
24 they have abandoned it?

1 They are comparing it with the abdominal
2 sacral colpopexy and they say that it is a higher
3 rate of mesh erosion compared to the abdominal
4 sacral colpopexy and the sacral colpoperineopexy,
5 but I don't see anything about them abandoning
6 anything.

7 Q. While I'm finding that, the authors
8 thought that mesh erosions may be the only clinical
9 manifestation of a bacterial contamination. If
10 this is true, it supports our finding that the rate
11 of mesh erosion was found to be higher in
12 operations with vaginal mesh compared with those in
13 which vaginal sutures were placed, and this may be
14 explained by a greater exposure of the mesh
15 material to the vaginal floor of the vaginal mesh
16 group.

17 Did I read that correctly?

18 A. You read that exactly. You read --
19 those three sentences were exactly how it's stated
20 here.

21 Q. And when was Gynemesh PS introduced to
22 the market?

23 A. You will have to refresh my memory
24 specifically. I don't remember the exact date.

1 Q. Was it 2002? Does that sound right?

2 A. That sounds right.

3 Q. I'm interested in your opinion on Page 5
4 that Prolift --

5 A. To clarify the sentence we just said, it
6 looks like January 2002.

7 Q. And I'm reading your opinion. "The
8 Gynecare Prolift pelvic floor system delivered
9 pre-cut Gynecare Gynemesh PS polypropylene mesh to
10 essentially recreate the normal anatomic pelvic
11 floor."

12 Is it your opinion --

13 A. I apologize. Where on 5 is that? Just
14 so I'm reading with you, where is it?

15 Q. "With this goal in mind" paragraph.

16 A. Okay. I got it.

17 Q. Is it your opinion that Prolift
18 recreates the normal anatomic pelvic floor?

19 A. That's the goal. That's what we try
20 to -- try to approximate. I don't think --

21 Q. Does Prolift recreate the normal
22 anatomic pelvic floor?

23 A. Yes. That's -- you are attempting to do
24 that. You are attempting to put everything back in

1 position and create the normal anatomy, that the
2 bladder is back up in position, the enterocele is
3 corrected and the rectocele, so yes, that's the
4 goal.

5 Q. I didn't ask if that's the goal. I
6 asked does Prolift recreate the normal anatomic --

7 A. Yes. And let me, I'm just going to add,
8 there is no surgical procedure that everything then
9 is a postoperative situation, so you can't take
10 something that's virgin and do any kind of surgery
11 on it and truly say that it's exactly the same.
12 So, let's just make that clarification. So, you
13 can make the anatomy normal, but it is still a
14 postoperative situation. That's the only
15 clarification I will add.

16 MS. THOMPSON: And I will object as
17 nonresponsive.

18 Exhibit 14.

19 (Bales Exhibit 14 was marked for
20 identification.)

21 BY MS. THOMPSON:

22 Q. Is this a document that you have seen,
23 Dr. Bales?

24 A. If this date is correct, it was from

1 August 1998. I may have seen it. I can't say 100
2 percent.

3 Q. And this was prior to the introduction
4 of Gynemesh PS for transvaginal use in prolapse,
5 correct?

6 A. Yes, it looks that way.

7 Q. And if you will go to the introduction,
8 will you read the second -- beginning in this
9 response to this Gynemesh paragraph and then the
10 bullet points underneath.

11 A. "In response to this Gynemesh, a
12 Prolene (polypropylene) mesh for repair of anterior
13 prolapse was launched in June. At this time it was
14 recognized that Prolene is far from being the ideal
15 material for this indication. However, it was
16 decided that the Gynecare Division should launch
17 this product for the following reasons: To raise
18 awareness of the possibility of using a mesh for
19 prolapse repair." Next bullet point, "To gain
20 entry into this growing market before competitors;
21 to spend time seeking out key surgeons as product
22 champions and to allow time to carry out further
23 market research into what the ideal product for
24 this indication might be."

1 Q. Is there a bullet point about improving
2 outcomes for patients?

3 A. No.

4 Q. Did Ethicon at this time have any
5 information that Gynemesh would improve outcomes
6 for patients?

7 A. I don't know.

8 Q. If they did, it certainly wasn't
9 mentioned in this document, in the introduction of
10 this document, correct?

11 A. It's not mentioned in the introduction
12 of this document.

13 Q. Going to your discussion of the efficacy
14 of Prolift in the anterior compartment you --

15 A. What page are we on?

16 Q. 5, going into 6.

17 A. Okay.

18 Q. You provide a chart listing some of the
19 trials with polypropylene mesh and compared with
20 native tissue repairs, correct?

21 A. Yes.

22 Q. And this chart only reflects anatomic
23 cure in the anterior compartment, correct?

24 A. That's correct.

1 Q. And the author of the paper in which
2 this chart was extracted is Dr. Jacquetin, right?

3 A. Yes, okay.

4 Q. And Dr. Jacquetin is a patent holder for
5 Prolift, correct?

6 A. I don't know, I don't know.

7 Q. You don't know that Dr. Jacquetin and
8 the TVM group?

9 A. I don't know him.

10 Q. Okay. Are you aware that Jacquetin is a
11 consultant for Ethicon?

12 A. I know that name.

13 Q. It's your opinion -- I'm skipping over
14 to Page 7 --

15 A. Page 7, okay.

16 Q. -- that the only unique risk with
17 Prolift or Gynemesh PS is mesh exposure and
18 erosion, which was well-known to surgeons. Is that
19 your opinion?

20 A. Yes.

21 Q. That the only unique risk is exposure
22 and erosion?

23 A. Unique risk.

24 MR. MORIARTY: We have been going an

1 hour and a half. Ready for a break?

2 MS. THOMPSON: Sure, take a break.

3 (Recess taken, 9:32 - 9:41 a.m.)

4 MS. THOMPSON: Back on.

5 BY MS. THOMPSON:

6 Q. I had asked earlier, Dr. Bales, your
7 opinion that the only unique risk is mesh exposure
8 and erosion, and for that opinion you cited the
9 Abed paper from 2011, correct?

10 A. I did.

11 MS. THOMPSON: And we will mark this
12 as Exhibit 15.

13 (Bales Exhibit 15 was marked for
14 identification.)

15 BY MS. THOMPSON:

16 Q. And this paper is titled "Incidence and
17 management of graft erosion, wound granulation and
18 dyspareunia following vaginal prolapse repair with
19 graft materials: a systematic review."

20 Why did you not include the dyspareunia
21 that's discussed in this paper when you cited it as
22 your support for the only unique risk with ProLift
23 or Gynemesh PS is mesh exposure and erosion?

24 A. Well, that sentence is as stated. I'm

1 just discussing the unique risk associated with
2 having the mesh, and you know, in other areas we
3 talk about dyspareunia rates and the first
4 paragraph discusses dyspareunia rates and such.
5 So, I didn't include every part of this paper.

6 Q. Does this paper state that the only
7 unique risk with Prolift or Gynemesh PS is exposure
8 and erosion?

9 A. I don't know if that exact verbiage is
10 used in this paper. I would have to refresh my
11 memory.

12 Q. Well, obviously it wouldn't because it
13 discusses graft erosion, wound granulation and
14 dyspareunia following prolapse with graft
15 materials, right?

16 A. Right, and my point in writing my report
17 is that those other type complications can be seen
18 with or without the presence of mesh, which is one
19 of the reasons. Again, we describe the unique risk
20 being the presence of the mesh and the exposure and
21 the erosion, so I guess just to clarify that.

22 Q. But you have already said that the
23 rates, the incidence, the severity, the permanence
24 and responsiveness to treatment are all important

1 when you are talking about adverse events or
2 complications, right?

3 A. Yes, it's all important.

4 Q. And at least in this review, the
5 dyspareunia rate associated with graft materials
6 was 9.1 percent, correct?

7 A. That's correct.

8 Q. We were talking also about Jacquelin,
9 who is an Ethicon consultant, and I will represent
10 to you that he is a patent holder on Prolift.

11 MR. MORIARTY: Is this one for me or
12 is this the only one?

13 MS. THOMPSON: Some of these I just
14 have two copies of, I apologize.

15 MR. MORIARTY: Are you marking it?

16 MS. THOMPSON: Yeah, I will go ahead
17 and mark it.

18 THE WITNESS: So I guess we are up to
19 16.

20 (Bales Exhibit 16 was marked for
21 identification.)

22 BY MS. THOMPSON:

23 Q. Are you familiar with this paper,
24 Doctor --

1 A. Yes.

2 Q. -- Bales? And actually, which did I
3 give you?

4 A. You have too many papers.

5 Q. I do. I actually meant to give you a
6 different one, but we will go ahead and talk about
7 this one. This is a paper, the 2013 --

8 A. 2009.

9 Q. This is the 2010 Jacquetin paper, the
10 three-year followup.

11 And you will agree with me, in this
12 paper the anatomical failure rate was 20 percent at
13 three years, correct, in the results section?

14 A. Correct. You are reading right from the
15 paper.

16 Q. Yep. And Dr. Jacquetin found that,
17 listing results of the abstract summary, correct,
18 listed that or stated that a significant number of
19 patients, 41 percent, ceased sexual activity by
20 three years, correct?

21 A. That's what his results were.

22 Q. And that de novo dyspareunia was
23 reported by 8.8 percent, correct?

24 A. Correct.

1 Q. And that would be consistent also with
2 the paper we just looked at previously, at the Abed
3 paper, correct?

4 MR. MORIARTY: Objection. Are you
5 just talking about the dyspareunia rate?

6 MS. THOMPSON: Just the dyspareunia.

7 Sorry.

8 A. Yes.

9 Q. If we go to the Jacquetin 2013 paper --
10 we will mark this one too, 17. I think you are
11 familiar with this one because it is cited in your
12 expert report, correct?

13 A. Correct.

14 (Bales Exhibit 17 was marked for
15 identification.)

16 BY MS. THOMPSON:

17 Q. And this Jacquetin paper with the
18 followup of the TVM, total transvaginal mesh
19 series, this is the one that your chart was derived
20 from, correct?

21 A. Yes.

22 Q. And in this paper, in the results
23 section of the abstract, Dr. Jacquetin reports 16
24 percent with mesh exposure for which 8 resections

1 needed to be performed, 7 exposures still ongoing
2 at the 5-year endpoint, all asymptomatic, correct?
3 I'm reading that correctly?

4 A. You are reading that correctly, yes.

5 Q. And only 33 out of 61, 54 percent,
6 sexually active patients at baseline remained so at
7 5 years in his study, correct?

8 A. That's correct.

9 Q. And de novo dyspareunia was reported by
10 10 percent, correct?

11 A. That's correct.

12 Q. And you are aware that Jacquetin also
13 published a paper based on the experience titled
14 "Complications of Vaginal Mesh"?

15 A. Do you have it? Did you want to go over
16 it?

17 Q. I need a helper.

18 A. Maybe this young fella.

19 MS. THOMPSON: It is just a short
20 paper. I do have one additional copy, and we
21 will mark that as Exhibit 18.

22 (Bales Exhibit 18 was marked for
23 identification.)

24

1 BY MS. THOMPSON:

2 Q. Do you need a moment to look at that, or
3 are you familiar with this paper?

4 A. Yeah, I'm familiar. I'm skimming it
5 over, but if I need more time I won't answer your
6 question and I will ask for a few more minutes, but
7 you can ask your question.

8 Q. This paper is based on Jacquetin's
9 experience with removal of 160 explant -- implants,
10 correct?

11 A. I will need just a second to confirm
12 that number.

13 Yeah, I mean, it seems that he is just
14 discussing more broadly everything about some of
15 his experiences and citing some other work, but
16 then on Page 895 he discusses that the French
17 experience is 160 implants that were removed by his
18 group, yep.

19 Q. And under the complications he lists
20 infections, correct, on Page 894?

21 A. Correct.

22 Q. And he lists exposures and erosions,
23 correct?

24 A. Yep.

1 Q. And he lists retractions, correct?

2 A. That's correct. We are reading, yes,
3 those are the three things.

4 Q. And he describes the average shrinking
5 of 25 to 30 percent in experimental surgery, and it
6 may reach 40 percent of the initial surface of the
7 implant in patients after surgery.

8 MR. MORIARTY: Is that a question?

9 Q. And therefore, many surgeons will use
10 large implants to cover defects and anticipate
11 scarring, shrinkage and puckering. Is that what
12 Dr. Jacquetin describes in this paper?

13 MR. MORIARTY: Objection, form.

14 Q. Did I read it correctly?

15 A. I think that bullet point you read
16 exactly, so that's what he has written here, yeah.

17 Q. And we will talk about your opinions on
18 shrinkage in a minute, but at least Dr. Jacquetin
19 listed that retraction as a complication of the
20 mesh devices he studied, correct?

21 A. Sure, and you left out -- right, and he
22 describes on a rat's abdominal wall and then he is
23 guesstimating based -- he says it may reach
24 40 percent on patients. So, it sounds like at

1 least on the experimental side it's on the rat's
2 abdominal wall, but you read the rest of the
3 sentence accurately.

4 Q. So, you think when he says -- sorry.
5 So, you think when he says, therefore, many
6 surgeons will use large implants to cover defects
7 and anticipate scarring, shrinkage and puckering he
8 is talking about rat surgeons?

9 MR. MORIARTY: Objection, form.

10 MS. THOMPSON: Well, I'm just asking
11 if that's what he meant, what he said.

12 MR. MORIARTY: You asked him if you
13 read that exactly, and you didn't. You
14 skipped the part about the rats, so he was
15 just pointing out what you skipped.

16 MS. THOMPSON: I don't think I did.

17 MR. MORIARTY: That's why I objected
18 to form. You skipped the part about the rats.

19 MS. THOMPSON: Well, I didn't intend
20 to skip.

21 BY MS. THOMPSON:

22 Q. You don't think the second sentence is
23 applying to rats, do you, Dr. Bales?

24 A. Well, the second sentence specifically

1 says patients; the first sentence definitely says
2 rats. So, I guess that was the only clarification.

3 Q. So you think the 40 percent would refer
4 to patients, human patients, right?

5 A. Well, again, I mean, he is not citing
6 any specific study here. It sounds like he is
7 surmising it may reach. I don't --

8 Q. But he is talking about humans, right?

9 A. He says in patients, so I would assume
10 that means patients.

11 Q. And when he says many surgeons will use
12 large implants to cover defect and anticipate
13 scarring, shrinking and puckering, he is talking
14 about human patients also; agree?

15 A. I suspect, although again, it's a very
16 general statement, and I'm not sure which surgeons
17 he is referring to or anything, how large. I mean,
18 it's just kind of a very general statement. I
19 imagine he is referring to surgeons operating on
20 humans. I don't want to over-infer.

21 Q. Okay. I want appreciate that.

22 (Mr. Jake Plattenberger entered the
23 deposition proceedings.)

24 MR. MORIARTY: Can we help you?

1 MR. DAVIS: He is with me.

2 BY MS. THOMPSON:

3 Q. Going back to your report, Dr. Bales, on
4 page -- the bottom of Page 7, let's go to Page 7,
5 in the first paragraph, dyspareunia rates were very
6 acceptable. What is an acceptable dyspareunia rate
7 for you following any type of surgery?

8 A. Well, obviously, it would be better
9 certainly for patients not to have dyspareunia, but
10 any -- I guess we all have a different opinion.

11 I'd tell you my opinion would be any
12 type of vaginal surgery we are doing, if we are
13 getting dyspareunia rates under 10 percent, it's
14 probably very acceptable. But again, that's very
15 sort of general, and again, a lot of patients, as
16 we just cited on some of the previous studies,
17 don't remain sexual active. A fair majority of the
18 patients aren't sexual active.

19 But to answer your question, I guess
20 anywhere in the low teens to less than 10 percent
21 would be acceptable for a vaginal surgical
22 procedure like this.

23 Q. And you would agree that there is a
24 likelihood that at least some of those patients who

1 are no longer sexually active and are not included
2 in the study are not sexually active because of
3 pain, correct, for whatever reason?

4 A. It could be. It's hard to say.

5 Q. But it would be reasonable to assume
6 that, correct?

A. I don't like to assume, but for whatever reason, patients sometimes aren't sexually active.

9 Q. Become not sexually active after
10 Prolift, correct?

11 A. Sure. The studies bear that out.

12 MS. THOMPSON: Number 19.

13 (Bales Exhibit 19 was marked for
14 identification.)

15 BY MS. THOMPSON:

16 Q. And this is the Lowman paper that you
17 cited in your report, correct?

18 A. Yep.

19 Q. And Dr. Lowman looked specifically at
20 dyspareunia with Prolift, correct?

21 MR. MORIARTY: Objection.

22 Q. Well, the title is "Does the Prolift
23 system cause dyspareunia," correct?

24 A. Yeah. This was, it looks like, a chart

1 review. They went back, and they were trying to
2 assess dyspareunia rates.

3 Q. And Dr. Lowman is a consultant for
4 Ethicon; would you agree with that?

5 A. I have no knowledge of him being a
6 consultant of Ethicon. He may or may not be.

7 Q. I believe it is a she.

8 A. A she. "Joy" is probably a better
9 female name, so I should --

10 Q. Or maybe it's not. I'm not sure.

11 And Dr. Lowman has a chart on Page 707e4
12 that lists the rates after various pelvic organ
13 prolapse procedures of de novo dyspareunia,
14 correct?

15 A. Sure. Which chart is it, which one?

16 Q. Page 707e4.

17 A. Table 4, I got it. Table 4, you mean?

18 Q. Correct. And did you go back and look
19 at these articles to see if those numbers were
20 correct?

21 A. To see what numbers are correct?

22 Q. The numbers that she provided in this
23 table for the other procedures.

24 A. Did I recheck her work?

1 Q. Did you look at the articles that she
2 cited in Table 4?

3 A. So, when I read over the articles, I
4 don't always look at all the cited articles
5 within -- that are embedded within the article.
6 Sometimes I do and sometimes they were previously
7 cited and are in part of the list.

8 Q. So the answer is no. I mean, that's
9 okay. Did you look at the articles that were cited
10 in Table 4?

11 A. Yeah. I don't remember looking at each
12 and every one, but I may have skimmed through them
13 and I may have.

14 Q. Well, let's just look at one of them,
15 the Weber paper on anterior/posterior colporrhaphy.
16 Okay?

17 A. Okay. Whatever you want.

18 MS. THOMPSON: And that's Exhibit 20.
19 (Bales Exhibit 20 was marked for
20 identification.)

21 BY MS. THOMPSON:

22 Q. And this study cited by Dr. Lowman in
23 her paper looks at sexual function after native
24 tissue prolapse repairs, correct?

1 A. Yes. I mean, it looks at sexual
2 function and vaginal anatomy, assessing sort of
3 both those things, vaginal dimensions and such.

4 Q. And Dr. Weber looked at dyspareunia
5 before and after surgeries, correct?

6 A. Yes. It's a questionnaire, obviously,
7 right? You don't see that. You ask the patients,
8 and it looked like patients reported preoperatively
9 and then postoperatively.

10 Q. And are you aware that in this paper
11 dyspareunia was persistent in only one of the 14
12 women?

13 MR. MORIARTY: Objection.

14 Q. You can go ahead and look at the paper
15 if you want to. I'm reading dyspareunia was
16 persistent in one woman on Page 1612.

17 A. Yeah, I mean in the interest of time, I
18 mean, it would be nice to study this a little more
19 closely, but it looks like there were six patients
20 who on their preoperative questionnaire had
21 dyspareunia, and one of those six
22 postoperatively -- again, these were the patients
23 who reported dyspareunia preoperatively -- one of
24 the six it was maintained, persisted.

1 Q. And if you use that statistic, 1 out of
2 75 would be 1.3 percent, correct?

3 MR. MORIARTY: Objection. Go ahead.

4 A. One out of 75 is 1.3 percent?

5 Q. Correct.

6 A. Yeah, that's mathematically correct.

7 Q. So would you agree with me that

8 Dr. Lowman saying that the dyspareunia rate of 19
9 point -- 19.0 percent is really accurate?

10 MR. MORIARTY: Objection, form.

11 A. Where did you get the 75 a moment ago?

12 Q. There is 75 patients in the study.

13 Dr. Lowman says 14 of 75 have de novo post-op
14 dyspareunia. What she doesn't mention, that only
15 one of those had persistent dyspareunia, correct?

16 A. Yeah, but it developed it, so 14 had new
17 dyspareunia.

18 Q. But all resolved spontaneously, correct,
19 except for one?

20 MR. MORIARTY: Objection.

21 A. Well, there was only 6. Of those 6
22 patients, 5 of the 6, so at least in this study,
23 they apparently resolved.

24 Q. Okay. So only 1 out of 75 ended up with

1 persistent dyspareunia, correct, after native
2 tissue repairs?

3 A. Well, not really. You are comparing
4 apples and oranges. I mean, the first group, it's
5 a different subset of patients. If you report the
6 who had dyspareunia beforehand, so in that group
7 5 out of 6, which is about 83 percent, resolved; 1
8 out of 6, so 16.66 percent, persisted.

9 So, if you look at that subset, and then
10 it's apples and oranges, you can't lump them all
11 together. The patients who didn't have
12 dyspareunia, then you can look at their dyspareunia
13 rates after surgery, but I don't think it's fair to
14 use the -- you are mixing up the numerator and the
15 denominator there, I think.

16 Q. I am looking at Dr. Lowman who says that
17 14 of the 75 patients in Dr. Weber's study had
18 de novo post-op dyspareunia. I'm just saying how
19 many of those patients had persistent dyspareunia.

20 A. Well, yes, those --

21 Q. Out of 75 according to Dr. Lowman?

22 A. Correct. So, it looks like 14 out of
23 75, it was not persistent. It started after the
24 procedure, yes, I would agree with that, if that's

1 what you are saying.

2 Q. Persistent doesn't mean it starts after
3 the procedure. Persistent means it lasts beyond
4 the term of the study, correct?

5 A. Well, in this and how it's used here is
6 the dyspareunia that was present before the
7 surgery, that's the persistence that Dr. Weber is
8 talking about in this paper.

9 Q. Okay. It says, reading from Page 1611,
10 "With dyspareunia defined as pain with sexual
11 activity occurring usually or always, the
12 prevalence was 8 percent before surgery, 6 of 80
13 women, and 19 percent after surgery, 15 of 80.
14 Dyspareunia was persistent in one woman, developed
15 as a new symptom in 14 and resolved in 5."

16 So, Dr. Lowman's numbers of 19 -- or 14
17 out of 75 are incorrect, right?

18 MR. MORIARTY: Objection.

19 A. No. How is that incorrect? That's
20 exactly what's reported here.

21 Q. We will just disagree on that one.

22 A. I mean, de novo means it started, so it
23 developed in 14, 14 in the 75. That's what's
24 reported there. But I'm happy to disagree. If you

1 want to agree to disagree, that's fine, but I think
2 those numbers are exactly right.

3 Q. Is it your opinion that the dyspareunia
4 that's known to occur with vaginal mesh procedures
5 is no different from dyspareunia that occurs in
6 native tissue repairs in regards to rates,
7 severity, permanence and responsiveness to
8 treatment?

9 MR. MORIARTY: Objection to form.

10 A. Can we repeat that back, please? I'm
11 sorry.

12 Q. Is it your opinion that the dyspareunia
13 that occurs with mesh repairs as reported in the
14 literature is no different from dyspareunia
15 occurring after native tissue repairs when you
16 consider rates, severity, responsiveness to
17 treatment and permanence?

18 MR. MORIARTY: Objection, form. Go
19 ahead.

20 A. Yeah, I don't think there is a
21 tremendous difference. I think dyspareunia is
22 dyspareunia, and it's very hard to quantitate
23 dyspareunia. To some degree we attempt to in some
24 of these studies, but on balance I think they are

1 similar.

2 Q. Your opinion is dyspareunia is
3 dyspareunia?

4 A. Well, dyspareunia just means pain with
5 intercourse, and I think it's very hard to
6 quantitate pain with intercourse, so that's what
7 I'm implying.

8 Q. You don't think there is a difference
9 between some irritation that might occur with
10 vaginal atrophy and women who have pain that's so
11 severe that they will be in bed for three days
12 afterwards with pain or are unable to even attempt
13 sex? Are those equivalent to you?

14 MR. MORIARTY: Object form.

15 A. So -- so -- so --

16 Q. Are those equivalent to you?

17 MR. MORIARTY: He is trying to answer
18 your question.

19 A. Let me clarify. Again, dyspareunia is
20 historically very difficult for us to quantify. It
21 is without -- obviously, you make a very simple
22 analogy. Of course a woman who has very mild pain
23 is not the same as a woman who has, you know,
24 horrific pain with intercourse.

1 So, there is a scale, of course, but my
2 point was when you are trying to compare and
3 discern whether it's from associated with a
4 hysterectomy or a native tissue repair or a mesh, I
5 think on balance those can be the same. And that
6 was the question you asked me. You didn't ask me
7 is dyspareunia from patient to patient exactly the
8 same.

9 Q. But you answered dyspareunia is
10 dyspareunia.

11 A. Meaning, again, that -- let me clarify
12 that. Dyspareunia needs to be taken seriously, and
13 that's my only point, that when dyspareunia occurs,
14 it's something that if a person has pain with
15 intercourse, we need to take that seriously.

16 So, I don't -- I don't say, oh, it's
17 mild or major. Dyspareunia is a serious problem
18 for a woman, and that's why if you have
19 dyspareunia, it's bad and it's something we will
20 try to correct. That's the point I was trying to
21 make, and I probably didn't answer it very
22 articulately.

23 Q. Dyspareunia may not always be bad; some
24 dyspareunia is very easy to treat, correct?

1 A. Yes, but it's still bad. It may be easy
2 to treat, but it doesn't mean it's not bad.

3 Q. Do women with vaginal atrophy ever have
4 severe, horrific vaginal pain with intercourse?

5 MR. MORIARTY: Object.

6 A. Yes.

7 Q. That cannot be treated easily with local
8 estrogen therapy?

9 A. That's the first thing we do with those
10 patients with atrophic changes, and very often that
11 can solve the problem, but not always.

12 Q. Do you treat women with dyspareunia that
13 don't have a urologic source?

14 A. Yes.

15 Q. You treat women with atrophic vaginitis
16 when that's the only condition they are presenting
17 with?

18 A. Yeah. So, they typically would come see
19 me because maybe they had a kidney stone or they
20 have had a urinary tract infection, and then in
21 taking their history we find out they also have
22 dyspareunia. We do a vaginal exam, and if they
23 have atrophic vaginitis, of course we treat it.

24 That's part of our history-taking and

1 thorough physical exam. There is no urologic cause
2 for dyspareunia. I mean, bladder pain and
3 dyspareunia are slightly distinct, right, so
4 dyspareunia --

5 Q. Or postoperative urologic surgery?

6 A. Correct.

7 Q. So, your opinion that the quality of
8 dyspareunia and vaginal pain that occurs after mesh
9 surgery is no different from that that can occur
10 with other prolapse surgery?

11 A. Yes. It may not be any different at
12 all.

13 Q. And you are ignoring the dozens of
14 articles that would say something differently,
15 correct?

16 MR. MORIARTY: Objection, form. Go
17 ahead. It's argumentative.

18 A. I'm not sure they say anything a whole
19 lot differently. There is papers that cite pain
20 and dyspareunia after any type of vaginal surgeries
21 and stuff; and certainly among those, as you stated
22 earlier, are papers now looking at experiences with
23 vaginal mesh procedures.

24 Q. Can you cite any paper that would

1 support your opinion that the pain associated with
2 vaginal mesh is no different -- and we are
3 considering all the factors, not that just that it
4 occurs. Can you cite any paper that says that pain
5 that occurs after mesh procedure is no different
6 from that occurring with any other native tissue
7 repairs?

8 A. I'm not sure there has been a
9 comparative study, so I can't say that.

10 Q. It doesn't even have to be a comparative
11 study. Has anybody offered an opinion that the
12 mesh pain after mesh surgery is no different when
13 you consider all the factors that we have talked
14 about, the native tissue repairs?

15 MR. MORIARTY: Objection. Go ahead.

16 A. So, if I see a patient who has vaginal
17 pain and fibromyalgias and says she can't get near
18 her husband and she is on the verge of divorce and
19 she is coming to see me because she was told I'm a
20 pelvic floor reconstructive guy and what can I
21 offer her and that woman has never had vaginal mesh
22 surgery, any surgery, and she has horrific
23 dyspareunia that's affecting her marriage, that
24 woman's dyspareunia is no different than a patient

1 who has had mesh and comes in and complains of the
2 exact same pain.

3 Q. How many postmenopausal women do you see
4 with new onset of dyspareunia due to pelvic floor
5 myalgia?

6 A. That would be hard for me to quantitate
7 the number. A fair number.

8 Q. When was the last time you saw someone,
9 new onset, menopausal, pelvic floor myalgia,
10 horrific dyspareunia, in your practice?

11 A. Probably Monday.

12 Q. I would like to see her records.

13 MR. MORIARTY: Motion to strike.

14 Q. You cited the Maher Cochrane reviews on
15 pelvic organ prolapse repairs in your paper?

16 MR. MORIARTY: Are you talking about
17 in his report?

18 MS. THOMPSON: In his report, sorry,
19 in your report, and the Cochrane 2016 review
20 of pelvic organ prolapse, and we can go ahead
21 and mark this.

22 (Bales Exhibit 21 was marked for
23 identification.)

24

1 BY MS. THOMPSON:

2 Q. And I'm just giving you the summary of
3 the review, and let's look at the key results.
4 The Cochrane review 2016 states that overall the
5 quality of the evidence ranged from very low to
6 moderate. The main limitations were poor reporting
7 of study methods, inconsistency and imprecision,
8 correct?

9 MR. MORIARTY: I'm sorry. I hate to
10 stop you. Could you tell me exactly where you
11 are reading? Obviously you are on the last
12 page.

13 MS. THOMPSON: The very last sentence
14 of the last page.

15 MR. MORIARTY: Oh, you are under main
16 results. I thought you said under key
17 results.

18 MS. THOMPSON: That what I was reading
19 was just quality of the evidence on the last
20 page.

21 BY MS. THOMPSON:

22 Q. Did I read that correctly, Dr. Bales?

23 A. Yeah, I'm sorry. I was on Page 2. I
24 was reading under main results.

1 Q. Under quality of the evidence on Page 3,
2 "Overall the quality of evidence ranged from very
3 low to moderate. The main limitations were poor
4 reporting of study methods, inconsistency and
5 imprecision." Did I read that correctly?

6 MR. MORIARTY: I object. I don't know
7 where you are, what you are reading. I don't
8 see a section called quality --

9 MS. THOMPSON: Plain language summary
10 on the very last page.

11 MR. MORIARTY: Okay. So you are on
12 the fourth page of this document under now
13 "Quality of Evidence" at the very end?

14 MS. THOMPSON: That's where I have
15 been the whole time.

16 BY MS. THOMPSON:

17 Q. "Overall, the quality of the evidence
18 ranged from very low to moderate. The main
19 limitations were poor reporting of study methods,
20 inconsistency and imprecision."

21 Did I read that correctly?

22 A. Yes.

23 Q. And did the authors conclude -- I'm back
24 on the previous page on author's conclusions.

1 "The authors conclude that the
2 risk/benefit profile means that transvaginal mesh
3 has limited utility in primary surgery. While it
4 is possible that in women with higher risk of
5 recurrence the benefits may outweigh the risk,
6 there is currently no evidence to support this
7 position."

8 Did I read that correctly?

9 A. You read it perfectly.

10 Q. And in the last paragraph, "In 2011,
11 many transvaginal permanent meshes were voluntarily
12 withdrawn from the market and the newer lightweight
13 transvaginal permanent meshes still available had
14 not been evaluated within an RCT. In the meantime,
15 these newer transvaginal meshes should be utilized
16 under the discretion of the ethics committee."

17 Did I read that correctly?

18 A. Yes. You read it fine.

19 Q. In 2016 the authors of the Cochrane
20 study, with Prolift having been on the market for
21 11 years and Gynemesh on the market for 16 years,
22 are stating that these meshes should only be
23 utilized under the discretion of an ethics
24 committee, correct?

1 MR. MORIARTY: Objection.

2 Q. Is that not what the authors concluded?

3 A. The authors' conclusion says as you read
4 them. They state new or transvaginal meshes should
5 be utilized under the discretion of the ethics
6 committee. That's what's written here. And it's
7 14 years with the Gynemesh, 2002 to 2016, 14 years.

8 Q. What did I say?

9 A. 16.

10 Q. I stand corrected.

11 MR. MORIARTY: And you said like 11 to
12 12 for Prolift.

13 MS. THOMPSON: Well, it was introduced
14 in 2005, so that would be 11.

15 MR. MORIARTY: And taken off the
16 market in 2012.

17 MS. THOMPSON: I intended to say 11
18 years after it was introduced to the market.
19 If I said 11 years of use, I am mistaken.
20 There are certainly women who have had it for
21 11 years.

22 We will mark this next as 22.

23 (Bales Exhibit 22 was marked for
24 identification.)

1 MS. THOMPSON: I just have one copy of
2 this.

3 BY MS. THOMPSON:

4 Q. And this is a paper by the same author,
5 Maher.

6 A. Same author; what do you mean, same
7 author?

8 Q. As the Cochrane review.

9 A. Yes, okay.

10 Q. And going to Page 4 of this article,
11 peer-reviewed article --

12 A. Yes, ma'am.

13 Q. These are the authors of the Cochrane
14 review that you cited in your paper, state the data
15 on transvaginal -- first of all, when was this
16 published?

17 A. It looks like it was September 2013.

18 Q. The authors state the data on
19 transvaginal mesh --

20 A. Can we clarify where on the page are you
21 reading?

22 Q. Page 4 of 8 at the top of page.

23 A. At the top, okay. After "FDA 2011"?

24 Q. "The data on transvaginal mesh

1 outcomes" --

2 A. Yes.

3 Q. -- "from these systematic reviews are
4 not as reassuring for the safety and efficacy of
5 transvaginal mesh as data presented from initial
6 case reports published by authors with a financial
7 COI..."

8 That means conflict of interest, right?

9 MR. MORIARTY: Objection, form.

10 A. That's what conflict of interest --

11 Q. Does "COI" mean conflict of interest in
12 this context?

13 A. Yes.

14 Q. "...with the product being evaluated."

15 Did I read that correctly?

16 A. Yes.

17 Q. And then it discusses the FDA 2011
18 transvaginal mesh alert. You are familiar with
19 that document, correct?

20 A. Correct.

21 Q. And it says, "Unfortunately," reading
22 that paragraph that starts, "Unfortunately, much of
23 the current data on POP surgery presented in our
24 systematic reviews fails to allay concerns outlined

1 in the September 2011 FDA transvaginal
2 polypropylene mesh report that found the safety of
3 transvaginal meshes has not been established;
4 depending on the compartment, the efficacy of
5 transvaginal meshes has not been established to be
6 more effective than traditional repairs; vaginal
7 mesh from POP repair should be reclassified from
8 class II to class III to ensure premarket analysis
9 includes a non-mesh control arm; currently marketed
10 vaginal mesh products should undergo premarket
11 evaluation to better explain" --

12 A. Postmarket.

13 Q. Sorry. Thank you.

14 -- "postmarket evaluation to better
15 explain the risk/benefit of mesh versus POP repair
16 without mesh; and safety and efficacy of mesh at
17 sacral colpopexy had been established."

18 Do you disagree with these conclusions
19 made by Maher, the author of the Cochrane reviews
20 on prolapse mesh use?

21 A. Which specific ones? The entire --

22 Q. The ones I just read from this paper.

23 MR. MORIARTY: Objection, form. Go
24 ahead.

1 A. Yeah, I have some disagreements on some
2 of them. I mean, basically, if you want, we can go
3 over them one by one. There is five bullet points.

4 The safety of transvaginal meshes has
5 not been established. Well, there has been a
6 wealth of studies on transvaginal meshes. We have
7 been talking about them in a number of the studies.
8 So, I think the safety has been established, and we
9 could argue about, you know, each of the papers,
10 but there is a lot of data out there, so --

11 Q. So, you disagree, that the safety has
12 been established. You disagree with the authors of
13 this paper and the Cochrane reviews, correct?

14 A. That's a different question. I thought
15 we were talking about this right now.

16 Q. Well, I'm just saying since that's their
17 opinion in this paper, you would disagree with the
18 authors on that point, correct?

19 MR. MORIARTY: Objection, asked and
20 answered.

21 A. Yes. I thought we would go point by
22 point.

23 Q. And so you would disagree with the FDA
24 as well on that point, correct?

1 A. No. I think -- well, the FDA report was
2 from 2011, and I think the FDA report in 2011 just
3 acknowledged that it was still early; and as you
4 know, with that FDA report, it's cited that there
5 is a variety of different complications that we
6 need to be aware of. And to specifically this says
7 the safety has not been established, I mean, yes, I
8 would disagree. If you have a lot of patients and
9 a lot of experience on safety, then to some degree
10 I would disagree; I think it has been established.
11 I think you have studies out there.

12 Q. And do you disagree that depending --
13 the second bullet.

14 A. Well, let's go through it. "Depending
15 on the compartment the efficacy of transvaginal
16 meshes has not been established to be more
17 effective than traditional repairs." I think there
18 is still, you know, better studies that need to
19 occur, but for sure there is conflicting results on
20 the effectiveness and whether transvaginal meshes
21 are better. I would be fine with that, so, and as
22 it says, depending on the compartment there is a
23 lot of factors that, you know, like what specific,
24 whether you are doing rectocele, cystoceles, what

1 have you.

2 Vaginal mesh repairs --

3 Q. Another point. But you will agree with
4 me, there is no studies that establish superiority
5 of vaginal mesh for effectiveness in the posterior
6 or apical compartments?

7 MR. MORIARTY: Objection. Go ahead.

8 A. Yeah, there is not a lot of good head-to
9 head studies that suggest it's superior.

10 Q. Are there any?

11 A. There are studies that suggest it's
12 equivalent.

13 Q. Not superior?

14 A. Not superior. "Vaginal mesh for pelvic
15 organ prolapse repair should be reclassified."
16 Again, I don't -- you know, that's sort of not my
17 area of knowledge base in terms of what goes into
18 the classification scheme, if you will, so I don't
19 have a good opinion on that.

20 "Currently marketed vaginal mesh
21 products should undergo a postmarket evaluation,"
22 that's okay, I mean, but I don't have a strong
23 opinion of that one way or the other.

24 And the last bullet point, "Safety and

efficacy of mesh at sacral colpopexy had been established." As we stated, I mean, again, there is a lot of data on sacral colpopexy, so I would agree that has been established, but as I said, I also would agree that the first point, there is at least data now that has established to some degree the safety and efficacy.

8 So, I hope that was clear. I just
9 wanted to make sure you understood sort of --

10 Q. Were there any studies when Prolift was
11 introduced in 2005 establishing safety and efficacy
12 of the device?

13 A. Well, it was a new device, so I'm not
14 aware that again it was being trialed and such,
15 so...

16 Q. So the answer would be no?

17 A. So, no.

18 Q. And finally, are you familiar with this
19 paper?

20 MS. THOMPSON: And we will mark that
21 as Exhibit 23.

22 (Exhibit 23 was marked for
23 identification.)

1 BY MS. THOMPSON:

2 Q. Are you familiar with this paper titled
3 "Vaginal Mesh Contraction, Definition, Clinical
4 Presentation and Management"?

5 A. Yes.

6 Q. And one of the two authors of this paper
7 is also the author of the Cochrane reviews that you
8 cited in your paper as well?

9 A. Maher.

10 Q. Maher. Is it your opinion that vaginal
11 mesh contraction is not unique to vaginal mesh
12 devices?

13 A. It is not -- say that again.

14 Q. You've given the opinion that the only
15 complication unique to vaginal mesh devices is
16 exposure and erosion, and I'm asking you is vaginal
17 mesh contraction not unique to vaginal mesh
18 devices?

19 A. I guess anything having to do with the
20 mesh itself is unique to the mesh. We could argue
21 about the extent of contracture, if you will. But
22 if the mesh changes at all, it's only going to
23 change if the mesh is present. So, again, I'm not
24 sure that's a complication, but it's a behavior of

1 the mesh. Maybe that's more accurate.

2 Q. Vaginal mesh contraction characterized
3 by severe vaginal pain, aggravated by movement,
4 dyspareunia in all sexually active women and focal
5 tenderness over contracted portions of the mesh on
6 vaginal examination, commonly involving the lateral
7 fixation arms, you have a question about whether
8 that's a complication or not?

9 A. I don't have a question. If the pain
10 exists, I have a question how much is specifically
11 due to contracture, which is what you were just
12 talking about.

13 Q. Well, these authors are reporting
14 vaginal mesh contraction. Do you question their
15 report?

16 A. I mean, their report is their report.

17 Q. And it certainly wasn't included in your
18 expert report, was it?

19 A. It was not.

20 Q. Vaginal mesh contraction characterized
21 by severe vaginal pain, dyspareunia in all women
22 and focal tenderness over contraction. In fact,
23 you say it's not even established that mesh
24 contracts to any clinical significant degree;

1 correct?

2 A. That's what I said.

3 Q. You certainly consider vaginal mesh
4 contraction a significant clinical condition,
5 correct?

6 MR. MORIARTY: Objection. Go ahead.

7 A. I guess that we can argue about how much
8 and how relevant contracture, how much it occurs,
9 how well it's measured, and if that truly is
10 clinically significant. Certainly these authors
11 feel that they felt some of the pain that they are
12 seeing is related to contracture.

13 Q. And you are aware that there are dozens,
14 literally, of articles describing mesh contracture
15 and the clinical symptoms, primarily pain,
16 associated with it, correct?

17 A. I'm aware that both those things exist,
18 and I'm certainly aware that mesh contractures
19 occur, just like mesh contractures occur in
20 inguinal hernias and ventral hernia and whatever,
21 yes.

22 Q. Okay. We are talking about vaginal mesh
23 contractions, right?

24 A. Yes, and I'm aware that they contract a

1 little bit.

2 Q. A little bit?

3 A. Well, I don't think it's certain. It's
4 very unclear how much they contract. It hasn't
5 been -- it's not well-studied, in percentages and
6 things like that. But yes, that we can say it's
7 safe to say vaginal meshes can contract. I will
8 certainly agree to that.

9 Q. Okay. Well, you state in your report,
10 and I'm just questioning whether this is objective
11 and unbiased, that there is no medical literature
12 conclusively establishing that mesh contracts with
13 vaginal use to clinically significant degrees.

14 So, Maher's paper is not conclusive to
15 you that it occurs?

16 MR. MORIARTY: Objection, form. Go
17 ahead.

18 A. Again, there is two different points you
19 are saying there. We are saying that --

20 Q. I first read your statement and then I
21 want to --

22 MR. MORIARTY: Don't cut him off. He
23 needs to answer your question.

24 MS. THOMPSON: I apologize.

1 MR. MORIARTY: If you don't like the
2 answer, you can follow up.

3 MS. THOMPSON: I'm just trying to get
4 through because I have three hours to cover
5 about 12 products.

6 THE WITNESS: It contracts.

7 MR. MORIARTY: Three, I believe.

8 MS. THOMPSON: Anterior, posterior,
9 total, six, seven, eight.

10 MR. MORIARTY: Prolift, Gynemesh PS.

11 MS. THOMPSON: Prolift, anterior,
12 posterior, total, which he said was three
13 different products, Plus M. Well, okay.

14 That's three products that would give me seven
15 hours. Okay. Go ahead.

16 A. That meshes, and we are talking about
17 vaginal meshes, contract, to the extent of their
18 clinical relevance, I guess I'm not -- I'm not --
19 I'm not convinced that we have a good understanding
20 of the clinical relevance.

21 Q. So in the literally dozens of papers
22 that talk about contraction, retraction, shrinkage,
23 you are not convinced that that's a clinically
24 significant condition?

1 A. I'm not convinced that in all those
2 patients it's simply -- it's as simple as saying a
3 little contraction occurred, and that's what's
4 causing all the pain. I think that it's not very
5 well defined. That's my opinion.

6 Q. Okay. The one paper you did out of the
7 literally dozens of papers that discussed this,
8 including the FDA, as a clinically significant
9 condition that is unique to mesh, the one paper you
10 selected to include in your expert report is Dietz.
11 My question is --

12 A. So you are happy with this one, that I
13 included this one?

14 Q. Oh, let's talk about this one.

15 A. Okay. Please.

16 Q. Did you find this paper on your own or
17 were --

18 MR. MORIARTY: Is this marked?

19 MS. THOMPSON: Let's mark that as the
20 exhibit next.

21 (Bales Exhibit 24 was marked for
22 identification.)

23 BY MS. THOMPSON:

24 Q. My question, first of all, is this a

1 paper you found on your own literature search, or
2 was this something that was furnished to you by
3 defense counsel?

4 A. I don't recall. I think I found it on
5 my own.

6 Q. And this is the one you chose out of
7 dozens, if not hundreds, of articles that discuss
8 mesh shrinkage, contraction, retraction and the
9 clinical significance, correct?

10 MR. MORIARTY: Objection, form.

11 A. This is one that's cited in my Herrera
12 report.

13 Q. Let's look at this report from 2011.

14 You are aware that Dr. Dietz is a consultant for
15 mesh manufacturers, correct?

16 A. Yes. Well, I'm just reading it.

17 Actually, I didn't remember that, but I'm reading
18 underneath on the first page here. It says he has
19 acted as a consultant for various vendors, so yes,
20 I guess he is.

21 Q. And Dr. Dietz used translabial
22 ultrasound in this study, correct?

23 A. Correct.

24 Q. Wouldn't that transvaginal ultrasound be

1 more accurate in assessing mesh in the pelvic
2 floor?

3 A. You know, I don't do translabial
4 ultrasounds, so I'm not sure how well it penetrates
5 to be able to assess it. I'm assuming that whether
6 it is translabial or transvaginal, they were able
7 to get dimensions, but I don't know enough about
8 translabial ultrasound.

9 Q. Aren't most of the papers that you've
10 seen or have you seen any looking at ultrasound to
11 assess mesh shrinkage using transvaginal
12 ultrasound?

13 A. Yes. Loyola has published some papers
14 here in Chicago, Dr. Mueller. So, yes, I'm aware
15 of that technique, and there has been some reports
16 on that.

17 Q. And Dr. Dietz did the first scan in his
18 paper at a minimum of three months, so the first
19 scan was done three months following the placement
20 of the surgery -- the placement of the mesh,
21 correct?

22 A. It looks like the study design, it was
23 between 3 and 52 months.

24 Q. And it's true that folding, wrinkling,

1 crumpling of mesh is often the explanation for the
2 phenomenon of mesh contraction, correct?

3 A. So it folds and that causes the
4 contractures? Repeat the question.

5 Q. Is it you are not aware of the folding
6 and wrinkling of the mesh causing the reduction in
7 size of the mesh tissue complex? You are not aware
8 of that phenomenon?

9 A. I'm not aware that a fold then causes it
10 to contract per se, no.

11 Q. But at three months, you will agree with
12 me that the mesh is already encased in tissue or
13 scar, correct?

14 A. Yeah. It might still be going on to
15 some degree. I mean, obviously it's an evolving
16 process and there might still be scar tissue being
17 laid down.

18 Q. But you will agree with me if you are
19 looking at mesh shrinkage, you don't start after
20 three months; you start at when the device was
21 placed because the majority of the shrinkage is
22 going to occur before implant of tissue, correct?

23 A. I don't know that. I don't know if we
24 know that.

1 Q. So you don't know that, all right.

2 A. I don't know if anybody knows that.

3 Q. Let's look at the results.

4 A. That's why this study was being done.

5 Q. Okay. Let's look at the results.

6 18 of 40 at this followup, 45 percent,

7 considered themselves cured. Are those good

8 results?

9 A. Can I find where you said what
10 specifically the -- in the results?

11 Q. 18 on Page e3, 18 of 40 considered
12 themselves cured at this followup, 45 percent. Are
13 those good results for outcomes?

14 MR. MORIARTY: Objection, form.

15 Q. Are those good results?

16 A. That sentence reads 18 to 40 considered
17 themselves cured and 18 of 40 felt improved, so if
18 36 out of 40 felt cured or improved, that's pretty
19 good results.

20 Q. I asked about 18 of 40 considered
21 themselves cured; is that a good result?

22 MR. MORIARTY: Objection.

23 A. Well, you can't -- you can't -- you
24 can't ask it like that, counselor.

1 Q. I can ask it any way I want to,
2 Dr. Bales.

3 A. True.

4 Q. I was going to ask you about the 18 out
5 of 40 later that felt improved, but 18 of 40
6 consider themselves cured; would you consider that
7 a good result?

8 MR. MORIARTY: Objection, asked and
9 answered.

10 MS. THOMPSON: Okay. We will just
11 take your answer then.

12 A. Don't you see, if 18 of the 40 were
13 cured and everybody else was worse, that wouldn't
14 be a good result, but if 18 out of 40 are cured and
15 another 18 are improved, that's 36 are cured or
16 improved.

17 I don't know what the scale they were
18 using, so that's funny you are asking me these
19 questions that are sort of taken out of context. I
20 can't give a simple yes-or-no answer. So, I think
21 it is important. I guess you want it to be
22 accurate, right? You want my responses to be
23 accurate, so we should -- we should -- we should
24 probably allow me to explain.

1 Q. Okay. So let's clarify this a little
2 bit. The objective prolapse recurrence rate, 16 of
3 40, 40 percent, in this study, would that be a good
4 result? Objective prolapse recurrence, 40 percent
5 in this study, correct?

6 A. Correct.

7 Q. Subjective recurrent lump, 27.6 percent,
8 correct?

9 A. 2.5 times 11, okay. Yes, that's what
10 they are reporting.

11 Q. And the authors state that folding or
12 warping of the mesh during or immediately after
13 implantation could occur, correct?

14 A. Where are you reading that?

15 If you pick out this sentence in the
16 middle of the paper, I don't know how to answer
17 your question. You've got to tell me where you are
18 reading it.

19 Q. "One small longitudinal study suggested
20 that most of the difference between in vitro and in
21 vivo mesh dimensions was due to surgical technique,
22 i.e., folding and warping of the mesh during or
23 immediately after implantation."

24 Did I read that correctly on Page e3?

1 A. Where on e3 are you reading it?

2 Q. Last full paragraph.

3 "One small longitudinal study suggested
4 that most of the difference between in vitro and in
5 vivo mesh dimensions was due to surgical technique,
6 i.e. folding and warping of the mesh during or
7 immediately after implantation."

8 MR. MORIARTY: And what's your
9 question?

10 Q. My question is, if folding and warping
11 of the mesh occurred during or immediately after
12 surgery, it would not be depicted as a change in
13 the dimensions of the mesh when the first scan is
14 done at three months, correct?

15 A. I don't know.

16 Q. You don't know? If it occurs
17 immediately after surgery would you be able to tell
18 the difference if the first scan is done at three
19 months?

20 A. I mean, I don't know enough about the
21 sensitivity of that or how -- again, I just don't
22 have a whole lot of familiarity with translabial
23 ultrasound to say.

24 Q. Well, this is the one study you picked

1 out of all the dozens, hundred studies describing
2 shrinkage of mesh. I'm just asking you opinions on
3 why this was the conclusive study or whether it
4 just supported --

5 A. I mean, it was one of the studies.

6 Q. What you --

7 A. All the studies -- again, there is a
8 body of literature and you have to pick out certain
9 studies, and so this is one of the ones that was
10 included. I mean, there is --

11 Q. So of all the dozens and every single
12 other study conclusively shows that mesh shrinks,
13 this is the one that you picked?

14 MR. MORIARTY: Objection, form. Go
15 ahead. Argumentative. You just want to argue
16 with him all day.

17 A. I don't think there was a question
18 there. This is the study I picked.

19 Q. What is the dimension of the Perigee
20 that was used in this study when it was inserted?
21 Or if you will take my word for it, it's 5 by 3.7
22 centimeters. Does that sound right?

23 A. So, it's in the materials and methods.
24 Your Perigee was I guess an American Medical

1 Systems product. This isn't even an Ethicon
2 product. Sure, I would believe this. They
3 describe that. I guess they measured it, and it's
4 5 by 3.7 centimeters.

5 Q. Well, you chose the paper about Perigee,
6 not me, right?

7 MR. MORIARTY: Objection,
8 argumentative. What does that have to do with
9 anything?

10 MS. THOMPSON: Well, he was
11 questioning that it wasn't even an Ethicon
12 product, and I was just bringing to his
13 attention that he was the one that picked a
14 non-Ethicon paper when there were other
15 Ethicon papers he could have chosen.

16 MR. MORIARTY: I thought you were
17 asking about the dimensions of the Perigee.

18 MS. THOMPSON: I am.

19 BY MS. THOMPSON:

20 Q. Now, if you go to the chart on Page e3
21 giving the dimensions, the lower mesh margin.

22 A. Table 1 or Table 2?

23 Q. Table 1. And the mesh link, those
24 measurements are significantly different, smaller

1 than 5 by 3.7, correct?

2 A. So, the coronal mesh diameter was 3.71
3 and then 3.77, so that actually is I think just the
4 same as the 3.7. Is that --

5 Q. Well, the lower mesh margin would be the
6 width, correct, and the mesh length would be the
7 length, correct?

8 And you get something like 1, between 1
9 and 1.45 for the width and you get 3.28 to 3.41 for
10 the length, correct? I'm just reading numbers.

11 A. I apologize. We are going to have to go
12 off the record for a second. I need to look at
13 this. I haven't familiarized myself with this in a
14 little while, and you are asking me all these --

15 Q. Are the numbers 1 and 3.4 less than 3.7
16 and 5?

17 A. I can't answer any questions about it.
18 If you can give me a few minutes to read this over.

19 Q. So this was a paper you chose, but you
20 are not at this time able to answer any questions
21 about the dimensions?

22 A. The very detailed, specific questions
23 you are asking about one of the 50 papers that I've
24 cited, I want to answer your questions --

1 Q. Excuse me.

2 MR. MORIARTY: Stop cutting him off,
3 please. Even the court reporter has told you
4 to stop it.

5 MS. THOMPSON: I'm sorry.

6 A. I want to answer your questions
7 accurately, and if you want to get into the minutia
8 of this little paper, which, again, it was cited
9 and so I'm perfectly willing to do it, but you are
10 going to have to give me a minute to better
11 understand it, because this is a paper that was on
12 something that I don't typically do and while the
13 other papers I'm much more familiar with because I
14 do the surgeries, I don't do the ultrasounds, and
15 you are asking me about numbers and how they were
16 interpreted. I need a few minutes to look it over.
17 I can do that, if you want.

18 Q. I don't want to spend the time because
19 my time is so limited, but you certainly would need
20 time to understand this paper, the one paper that
21 you cited on shrinkage, correct?

22 A. I would need a lot of time, but you are
23 asking me again how to interpret their tables and
24 how the dimensions were being measured, and I need

1 a few minutes to read over their methods. I'm
2 happy to do that.

3 Q. It's only a four-page paper, right?

4 A. You are the one who says we don't have
5 time. I have plenty of time.

6 Q. Let's go ahead and look at some
7 shrinkage information on Ethicon products. Okay?

8 A. Okay.

9 MS. THOMPSON: We will mark this as
10 25.

11 (Bales Exhibit 25 was marked for
12 identification.)

13 BY MS. THOMPSON:

14 Q. And I'm looking specifically at the
15 abstract 157 by the authors Letouzey and De Tayrac,
16 among others. Are you aware that these authors are
17 part of the TVM group in France?

18 A. Yeah. I think I recognize the
19 Levaillant. I'm not perhaps pronouncing that, the
20 Levaillant name.

21 Q. And this study actually used Gynemesh,
22 correct?

23 A. Yes.

24 Q. And it was placed under the bladder in a

1 tension-free procedure, correct?

2 A. Correct.

3 Q. And the results of this study showed
4 that ultrasound evaluation reconstruction has been
5 shown to -- a typo -- has been showed a mean
6 contraction of 30 percent, 65 percent, 85 percent
7 at a mean followup of 3 years, 6 years and 8 years
8 respectively, correct? Did I read that correctly?

9 A. Yes.

10 Q. 85 percent at 8 years is certainly not
11 any clinically significant degree, as you stated in
12 your report, is it?

13 A. Well, you know, it is interesting. If
14 we read just a little further, there was no
15 significant correlation between mesh position and
16 clinical outcomes. So actually, it seems to
17 indicate by their results that while it's
18 contracted, it hasn't affected outcomes. So, I
19 guess it's not clinically significant if you
20 believe this one abstract.

21 Q. Did the mesh shrink in this abstract by
22 Dr. Tayrac?

23 A. Well, according to the ultrasound
24 measurements, you just stated the numbers,

1 30 percent, 65 percent, et cetera.

2 MS. THOMPSON: We will mark this as
3 Exhibit 26.

4 (Bales Exhibit 26 was marked for
5 identification.)

6 BY MS. THOMPSON:

7 Q. Did you look at any Ethicon documents
8 regarding mesh shrinkage and the clinical
9 significance?

10 A. Yes, I looked at some documents.

11 Q. Did you look at this document that I
12 just marked as Exhibit 26 that says, "Mesh
13 shrinkage: How to assess, how to prevent, how to
14 manage?" by authors Velemir, Fatton and Jacquetin,
15 also part of the TVM investigating group on
16 Gynemesh and Prolift? Have you seen this document?

17 A. I may have.

18 Q. Go ahead and look through it, if you
19 would like, and let me know when you are ready.

20 A. Well, I don't know what to be ready for,
21 so I'm not sure if I'm ready.

22 Q. I want to ask you some questions, but I
23 will direct you to the right place.

24 A. When you don't know what to expect, it

1 is hard to know if you are ready.

2 Q. Fair enough. And this entire document,
3 it looks like it was a workshop, is postoperative
4 specific complications following transvaginal mesh
5 repair of pelvic organ prolapse, etiology,
6 prevention and management; and the entire -- I
7 don't know how many pages it is but it's long -- is
8 about mesh shrinkage, correct?

9 A. I don't know. I didn't have time to go
10 through every single page just now.

11 Q. Well, the title is "Mesh Shrinkage," so
12 you can probably assume that the document is about
13 mesh shrinkage, right?

14 MR. MORIARTY: Your question was
15 whether every page of the thing was about mesh
16 shrinkage, so don't get frustrated by his
17 answer when he hasn't assessed because I'm
18 looking at the third page and it isn't about
19 shrinkage. So, I understand your frustration,
20 but if your question is going to be that
21 way...

22 BY MS. THOMPSON:

23 Q. Okay. Let's just go through several of
24 these pages. All right. It gives a definition of

1 mesh shrinkage on page -- the second page,
2 reduction of the mesh area after tissue
3 incorporation, correct?

4 A. That's what it lists as the definition.

5 Q. And it also says it's often associated
6 with mesh thickening and folding, correct?

7 A. That's the third bullet point there,
8 yes, often associated with mesh thickening and
9 folding.

10 Q. Would you disagree that mesh shrinkage
11 is often associated with mesh thickening and
12 folding?

13 A. That hasn't been my experience.

14 Q. So you would disagree with Ethicon that
15 mesh shrinkage is often associated with mesh
16 thickening and folding?

17 MR. MORIARTY: Objection, objection to
18 form.

19 Q. You can answer.

20 A. It hasn't been my experience that I have
21 seen in my own patients a lot of mesh thickening
22 and folding, so I don't know who I'm disagreeing
23 with, but you asked me what my opinion is, and I
24 haven't seen that.

1 Q. And do you have any peer-reviewed
2 literature that would tell you that mesh shrinkage
3 is not associated with mesh thickening and folding?

4 A. I guess we will have to go through and
5 find some literature. Again, there is lots of
6 literature that there is mesh contraction, but
7 specifically regarding the folding and how the
8 folding is measured, I'm not aware of any
9 literature telling me that or showing me that or
10 quantifying that.

11 Q. I'm asking are you aware of literature
12 that says it's not associated with thickening and
13 folding, not that it is.

14 MR. MORIARTY: Objection, asked and
15 answered.

16 Q. Two different questions.

17 A. I guess I'm not sure that there is
18 literature specifically talking about the folding
19 and the thickening.

20 Q. Okay. Would you agree that mesh
21 shrinkage is well-documented in animal studies with
22 a range of 15 to 65 percent?

23 A. Yes, there is animal studies that show
24 that. I would agree with that statement.

1 Q. Would you agree that mesh shrinkage is a
2 phenomenon experienced by abdominal surgeons?

3 A. When using mesh for what procedures? So
4 use mesh for ventral hernias, for instance, or what
5 specifically?

6 Q. I'm just reading. Do you agree with the
7 statement from Drs. Velemir, Fatton and Jacquetin
8 of the TVM group in France investigating Gynemesh
9 and Prolift that mesh shrinkage is a phenomenon
10 experienced by abdominal surgeons?

11 A. Well, I guess I don't disagree, I don't
12 agree. I'm not sure what they are referring to
13 there, so I don't want to just --

14 Q. So you can't answer that question?

15 A. Again, let me finish. As a blanket
16 statement I just want to say I agree. I'm just not
17 sure what they are referring to.

18 Q. And do you agree with the statement that
19 mesh shrinkage is a phenomenon which has become a
20 rising concern in urogynecology since the
21 widespread use of vaginal mesh?

22 A. I think it's a concern for
23 urogynecologists, urologists. Anybody who is using
24 vaginal mesh, it would be a concern.

1 Q. Except it's your opinion that it has not
2 been shown that vaginal mesh contraction is of any
3 clinical significance, correct?

4 A. Right. That's a different question,
5 right. So, we are always concerned about these
6 complications and risks and whether or not there is
7 any clinical significance. It's my opinion right
8 now that I'm not sure what the clinical
9 significance is.

10 Q. Well, you said you don't believe there
11 is clinical significance, correct?

12 A. Correct.

13 Q. All right. So it hasn't been a --

14 A. For instance -- just let me finish. For
15 instance, the previous exhibit indicated that there
16 was again that mesh contracture but no difference
17 in clinical outcome. So, that's a prime example of
18 what I believe, so, anyway...

19 Q. Well, you said that contraction hasn't
20 been conclusively established?

21 A. Contraction.

22 Q. Going to the next page, what did we
23 learn from abdominal wall repair studies?

24 "Several complications associated with

1 the use of mesh may be due to chronic inflammatory
2 reaction to the mesh or a loss of compliance after
3 degradation of the material."

4 Do you agree or disagree with that
5 statement by these authors, published by Ethicon?

6 MR. MORIARTY: Objection, form.

7 I'm sorry. Did you say published by
8 Ethicon? There is nothing that says this is
9 an Ethicon document. It's from some IUGA
10 seminar.

11 MS. THOMPSON: I apologize. By the
12 authors that were the Ethicon investigators of
13 the Gynemesh and Prolift products.

14 BY THE WITNESS:

15 A. It would be nice to see it in the
16 context, but basically complications -- let's read.
17 The bullet point says several complications may --
18 may be due to chronic inflammatory reaction to the
19 mesh or loss of compliance.

20 So, I guess I would agree with that,
21 although it would be nice to know specifically in
22 what context they are talking about and what -- you
23 know, in what type of surgeries and what have you,
24 but on balance I guess I would agree with that

1 statement.

2 BY MS. THOMPSON:

3 Q. And actually going to the bullet point
4 above that, mesh repair reduces the rate of
5 recurrence compared with traditional suture repair
6 and works by both direct mechanical sealing,
7 sublay, and induction of a scar plate formation.

8 Do you agree with the statement that
9 mesh repair induces a scar plate formation?

10 A. I -- yeah, I agree with that statement
11 100 percent. For abdominal wall repairs,
12 mechanical sealing, right, the synthetic, the mesh
13 is there and also scar happens and further
14 reinforces the repair. I agree with urethra.

15 Q. Is a scar plate a good thing to have in
16 the vagina?

17 MR. MORIARTY: Objection. Go ahead.

18 A. Well, I'm not sure exactly I guess what
19 the difference is between a scar and a scar plate,
20 right. I guess it's kind of maybe a poor term. I
21 think scarring is something that occurs after we do
22 surgery. So, obviously, less scarring is better
23 than more scarring, but again, I'm not sure what we
24 mean by a scar plate.

1 Q. You are not familiar with the term "scar
2 plate" used in mesh literature extensively?

3 A. I'm very familiar with the term. I'm
4 just not sure how it differs from just a scar and
5 what it conveys in terms of the size of the scar
6 and the thickness of the scar, any of that. Again,
7 it's not a very good term in terms of what it
8 conveys. So, I say you have a scar plate. What
9 does that mean? You have a 1 centimeter, you have
10 a 5 centimeter scar?

11 Q. So you don't know what the term "scar
12 plate" means?

13 A. I think I just indicated that I know
14 exactly what a scar plate is. A scar plate is
15 simply just a scar, and there is no absolute
16 literature saying what the -- it's not a good term
17 because it doesn't mean any specific size or
18 thickness or anything.

19 So, I'm familiar with the term, we use
20 the term a lot, but it doesn't necessarily indicate
21 the size of the scar or what significance it may
22 have clinically.

23 Q. So is it your opinion that "scar" and
24 "scar plate" mean the same thing?

1 A. Yes.

2 Q. And then mesh shrinkage, and again we
3 are talking about what did we learn from abdominal
4 wall repair studies. "Mesh shrinkage folding and
5 migration may result in some cases in a recurrent
6 hernia and also pain," do you agree or disagree
7 with that statement, that mesh shrinkage folding
8 and migration may cause pain?

9 MR. MORIARTY: Objection, form.

10 A. I don't agree or disagree.

11 Q. You don't agree or disagree? You can't
12 answer the question whether shrinkage, folding and
13 migration can cause pain?

14 A. Well, I suppose if it says "may," I
15 suppose it could. Again, I would need to know the
16 clinical context. It's such a generic thing, mesh
17 migration. So if the mesh moves a little bit, it's
18 going to cause pain. If you put mesh in somebody,
19 they can get pain. I guess I'm not sure how to
20 answer that.

21 Q. So you have trouble answering the
22 question of whether you agree with the statement by
23 these authors that mesh shrinkage, folding,
24 migration may cause pain?

1 MR. MORIARTY: Objection, form. Go
2 ahead.

3 A. I have trouble not knowing specifically
4 what they are referring to. I don't want to make a
5 blanket statement yes.

6 Q. Okay. Let's go to the next page.

7 MR. MORIARTY: Time for a break,
8 unless you have to get to that next page
9 before the break.

10 MS. THOMPSON: No, I don't have to get
11 to the next page.

12 MR. MORIARTY: I think you have an
13 hour left.

14 MS. THOMPSON: I will be fine with an
15 hour.

16 (Recess taken, 11:02 - 11:16 a.m.)

17 BY MS. THOMPSON:

18 Q. Dr. Bales, let's go to the -- I think
19 it's the next page, "What is specific to vaginal
20 surgery?" And these authors state, "Poor knowledge
21 of the vagina in vivo response to the materials."
22 Do you agree or disagree that there is poor
23 knowledge of the vaginal in vivo response to the
24 materials?

1 A. Oh, I think we are learning more and
2 more. I don't know exactly what the timeframe was
3 on this, but for sure it's newer, right, that we
4 are putting these materials into the vagina, so I
5 think we have an evolving knowledge. I guess that
6 would be more correct to say.

7 Q. When the Prolift was on the market,
8 Gynemesh and Prolift for transvaginal use, was
9 there poor knowledge of the vaginal in vivo
10 response to the materials?

11 A. I think there was limited knowledge.

12 Q. So you take exception with the word
13 "poor" but agree that it was limited?

14 A. I would use the term, yeah, "limited."
15 I wouldn't be comfortable saying "poor." It is
16 limited.

17 Q. Do you agree that the vagina has an
18 important vascularity and endogenous microflora
19 that may have an impact on host tissue response and
20 biomechanical properties of grafts used in pelvic
21 reconstructive?

22 A. Yeah, I agree with that 100 percent.

23 Q. Going to the next page, "What do we
24 observe with mesh repair in our field?" And the

1 statement is "Mesh shrinkage may be associated
2 with," bullet points, "stiffness/tenderness at
3 vaginal examination." Would you agree with that?

4 MR. MORIARTY: Objection, form. Go
5 ahead.

6 Q. Would you agree with mesh shrinkage may
7 be associated with stiffness and tenderness at
8 vaginal examination?

9 MR. MORIARTY: Same objection.

10 A. I guess I would agree. May be
11 associated, I guess I could agree with that
12 statement.

13 Q. Would you agree that mesh shrinkage may
14 be associated with discomfort, pain during
15 intercourse?

16 MR. MORIARTY: Same objection.

17 A. I guess I would just underscore again
18 that I don't know how easy it is to determine
19 whether mesh shrinkage is what's causing discomfort
20 and pain after intercourse, so that's why. So, I
21 guess may, may be associated, sure. I guess I
22 could on balance say that's okay.

23 Q. And you certainly agree that there are
24 many papers where the authors are able to make the

1 connection between the shrinkage, retraction,
2 contraction and pain; you just are not able to,
3 correct?

4 MR. MORIARTY: Objection, form. Go
5 ahead.

6 A. Yes, I'm not able to.

7 Q. Do you agree with the statement mesh
8 shrinkage may be associated with pelvic pain?

9 MR. MORIARTY: Same objection.

10 A. I think it was the same thing we said
11 before. There is -- when patients have pain,
12 specifically the mesh being possibly shrinking or
13 is shrinking, is that the cause of the pain, I
14 guess it can be hard to say. So, that's my only
15 concerning about making that blanket statement.

16 Q. Do you agree or disagree with the
17 statement mesh shrinkage may be associated with
18 urinary or defecatory dysfunctions?

19 MR. MORIARTY: Same objection.

20 A. I -- yeah, I guess I'm not sure if the
21 mesh -- yeah, I guess I'm not prepared to say mesh
22 shrinkage causes urinary or defecatory dysfunction,
23 so no.

24 Q. Do you disagree or agree with the

1 statement mesh shrinkage may be associated with
2 prolapse recurrence?

3 MR. MORIARTY: Form objection. Go
4 ahead.

5 A. I would say that mesh shrinkage or mesh
6 loosening, so yes, I would agree with that, could
7 be associated with prolapse recurrence. I would
8 say yes to that statement.

9 Q. And these authors cite three papers to
10 support the statements that they make on this page
11 of this presentation, correct?

12 A. I guess. I mean, it looks like these
13 are slides, right? I mean, again, it seems to me
14 that maybe this was IUGA, right. It was at a
15 meeting and these are just copies of slides, I
16 think, so these obviously are the papers they cite.
17 I would have to go back through those papers are,
18 but sure, it looks like they are giving those
19 citations.

20 Q. Yeah, and my question was just the
21 authors cite three papers.

22 A. Citations are definitely there.

23 Q. And I'm using the word "presentation" on
24 when we are talking about this document, if that's

1 acceptable to you.

2 A. That's what it seems like it is.

3 Q. I actually counted approximately 25
4 articles cited in this presentation by these three
5 authors, correct? Would you agree that's something
6 in that neighborhood from your perusing the
7 document?

8 A. I would believe you if you said you
9 counted them and there is 25.

10 Q. I said approximately, so don't hold me
11 to an exact number either.

12 Okay. The next page, "Why does mesh
13 shrinkage happen?" The bullet points, "An unclear
14 etiology" is the first one. The second is
15 "Shrinkage should not be considered as a
16 complication of the biomaterial but as a
17 consequence of the incorporation of the mesh to a
18 scar tissue," and the third, "Biomaterials, even
19 polypropylene, are not inert" with a exclamation
20 point.

21 Do you agree with these authors who gave
22 these three bullet points as why does mesh
23 shrinkage happen?

24 MR. MORIARTY: Objection, form.

1 A. Again, there is three. Mesh shrinkage,
2 they say it's unclear, there is an unclear
3 etiology. I agree with that.

4 Shrinkage should not be considered a
5 complication of the biomaterial but more
6 incorporation of the mesh to scar tissue, I guess I
7 would agree with that, although I think they --
8 they -- they cite their first bullet point that
9 there is an unclear etiology and then they say,
10 well, it's because of this. So, I think it's still
11 perhaps a little bit unclear.

12 And biomaterials, even polypropylene, I
13 would not agree are not inert. They cause some
14 response, some host response.

15 Q. On the next page, histological sequence
16 after mesh incorporation, and it gives basically a
17 pathological process by which it happens, correct?

18 A. They discuss, right, how a immune
19 response occurs, there is inflammation and then
20 some of the wound contracture; yeah, they do.
21 That's what the slide is.

22 Q. And there are two articles cited on this
23 page as well, correct?

24 A. Yes.

1 Q. It says mesh contraction essentially
2 takes place during the first two months, correct?

3 A. That's what it says here.

4 Q. So, if this were true, the Dietz paper
5 who looks at shrinkage or contraction beginning at
6 three months would not provide very much
7 information on any shrinkage or contraction that
8 takes place in the first two months, correct?

9 MR. MORIARTY: Objection.

10 A. Well, it might still be beneficial
11 because, remember, they knew the starting point
12 incident, and if the contraction occurs in the
13 first two months, it's not going to re-expand.
14 So, if you look at it at any point after two
15 months, you will still be able to determine that
16 the contracture occurred, so it may still provide
17 very valuable information.

18 Q. Well, you understand that the Dietz
19 paper took two points in time; the first point was
20 after three months and the second point was
21 sometime after three months?

22 A. Some time after that, correct.

23 Q. So you are not going to detect any
24 shrinkage that occurs in the first two months, are

1 you, doing it in that method?

2 MR. MORIARTY: Objection, asked and
3 answered. Go ahead.

4 A. Yes.

5 MR. MORIARTY: He just gave you an
6 answer to that very question.

7 A. In a perfect world it would be nice if
8 you had the preoperative measurements and then
9 sequential and serial measurement at two weeks,
10 four weeks, six weeks, and you could really learn a
11 little bit about that.

12 So, I'm not immediately familiar with
13 these two citations, so I can't know how they
14 decided that the mesh contraction, what data they
15 have to support that it occurs essentially in the
16 two first two months.

17 Q. Okay. And I didn't ask you about the
18 data that they have, but if you assume that mesh
19 contraction essentially takes place during the
20 first two months, as stated in this presentation,
21 then a study that has their first point after three
22 months and compares it with another point past the
23 three months wouldn't be able to tell you anything
24 about the contraction that takes place in the first

1 two months, would it?

2 MR. MORIARTY: Objection, asked and
3 answered. Go ahead.

4 A. That's a tremendous "if," right? But
5 sure, if you are looking for an event and if the
6 event happened before you are looking for it, you
7 are not going to be able to tell.

8 Q. Okay, all right. Thank you.

9 And the patients -- the authors state,
10 "However, some observations support the idea of a
11 chronic inflammation which persists several years."
12 Do you agree with that statement?

13 A. It's such a vague statement I'm not sure
14 how to agree or disagree. Some observations, what
15 observations? I don't know what they are talking
16 about, so I don't want to agree or disagree.

17 Q. Let's go to the page that says "How to
18 assess mesh shrinkage? Clinical assessment."

19 A. Okay. I'm on that page.

20 Q. And one is "Transvaginal palpation of
21 the mesh." Do you agree that transvaginal
22 palpation of the mesh is a method to assess mesh
23 shrinkage?

24 A. It's certainly a method that's used. I

1 agree with that.

2 Q. What is VAS of a vaginal pain?

3 A. That stands for visual analog scale.

4 Typically you have a scale oftentimes from 1 to 100
5 and you ask a patient to put in a notation, zero
6 being no pain, 100 being I guess the most severe
7 pain you've ever had and they mark it on a piece of
8 paper, and that's how you measure it then, so it's
9 graded 30, 60, 90, depending on that scale. So,
10 that's what a VAS scale is.

11 Q. And do you agree that VAS of vaginal
12 pain is a method for assessment of mesh shrinkage?

13 A. No. VAS is a method for assessing
14 vaginal pain. VAS doesn't tell you anything about
15 mesh shrinkage.

16 Q. I guess these authors thought it was a
17 way of quantifying the vaginal pain associated with
18 mesh shrinkage. Would that be your assumption?

19 A. Obviously they would have been talking
20 as they presented these slides, so it's a little
21 hard to say. It looks like they are trying to make
22 a comparison or a correlation, but again, the VAS
23 is completely unrelated to anything about the
24 anatomy of the mesh. It's strictly just -- it's a

1 pain scale that the patient describes.

2 Q. But they wouldn't be talking about
3 vaginal pain from some other source, would they, on
4 this slide about how to assess mesh shrinkage?

5 A. I'm not sure what they would be doing.

6 Q. Really?

7 A. Well, again, I didn't give the
8 presentation.

9 Q. Okay. And the third bullet point on how
10 to assess mesh shrinkage is "Assessment of sexual
11 outcome." Do you agree that that would be a method
12 of detecting, assessing mesh shrinkage?

13 A. Again, I'm not sure about the
14 correlation. I think it's very important to assess
15 pain scales and sexual outcomes, but again, I'm not
16 quite sure where they are going with this in terms
17 of correlating with mesh shrinkage.

18 Q. And then the fourth bullet point is "Use
19 of a specific classification."

20 You are aware that the ICS published a
21 methodology for determining mesh-related
22 complications and grading them, classifying and
23 grading them?

24 A. Yes.

1 Q. And you are aware that the ICS
2 classification of mesh complications does give a
3 grading system for mesh contraction and shrinkage?

4 A. Yes.

5 Q. So do you believe that that's what they
6 are referring to under specific classification, or
7 what is specific classification and method to
8 assess mesh shrinkage?

9 A. Correct me if I'm wrong, we would have
10 to look that up again. It has been around for I
11 think a couple years. There is a good paper from
12 the Cleveland Clinic that used that scale and an
13 experience of about 25 or 30 patients. But as I
14 said, I'm not sure that classification scale
15 specifically pertains to mesh shrinkage. That
16 scale just has to do with patients' symptoms and,
17 you know, their vaginal exam.

18 I'm not sure part of that scale -- I
19 would have to pull it up -- also measures or talks
20 about the shrinkage that may have occurred.

21 Q. We will pull that up if I have time at
22 the end.

23 So, the next couple of pages provide
24 methods for classification, and the first is by an

1 author Debodinance that grades it four ways: Mesh
2 palpable but not sensitive, moderate shrinkage
3 and/or little symptomatic, severe shrinkage and/or
4 symptomatic with sensitive palpation, and then
5 grade 4, painful mesh palpation.

6 Would you agree that those are all --
7 those would be degrees of or a way to grade mesh
8 shrinkage on examination?

9 A. Well, sure. I guess that's what this
10 grading scale is for. Again, how accurate it is,
11 that's why, as we had discussed earlier, certain
12 practitioners now were incorporating transvaginal
13 and translabial ultrasound to try to have a more
14 objective scale to utilize to try to assess what's
15 occurred there with mesh shrinkage.

16 Q. And the next one is a mesh shrinkage
17 classification by Cosson and Fatton, which I
18 believe are also members of the Ethicon TVM group
19 in France, correct?

20 MR. MORIARTY: Objection. Go ahead.

21 A. I don't know if they are members of any
22 group or what have you.

23 Q. And then they give another
24 classification system that's 1 through 5, with

1 asymptomatic being grade 1; spontaneous pain, grade
2 5; and then a less than 50 percent or greater than
3 50 percent degree of protection. Would you agree
4 that would be another way to classify mesh
5 shrinkage?

6 A. Well, there is nothing in the grading
7 scale that talks about shrinkage, so I'm not sure
8 how you use this scale.

9 Q. Well, it at least says degree of
10 retraction, "A" or "B."

11 A. So where does the "A" or "B" go? Is "B"
12 the ones that goes in 3, 4, 5 and then "A" in 1 and
13 2?

14 Q. I believe -- well, this is a method of
15 classification regardless of how you interpret it,
16 correct?

17 A. Yeah. I mean, it looks like it's mostly
18 using pain, though. I guess I'm not sure if you
19 told me this woman who was a Grade 3 and the other
20 was a Grade 4, what's that going to tell us about
21 the mesh shrinkage.

22 Q. But it's a method of classification,
23 correct?

24 A. Right, but you asked about the mesh

1 shrinkage. So, I don't know how I would use -- how
2 -- you said one is a 3 and one is a 4, one is a 3,
3 one is a 5. If you told me that, then how does it
4 tell us what degree of mesh shrinkage is there?

5 Q. Then going to the next page, which is
6 "Our Experience," and that would mean the
7 experience of the authors, correct, who are the
8 TVM, Ethicon Gynemesh and Prolift investigators,
9 correct?

10 A. I mean, I guess. Again, you are just
11 showing me these pieces of paper. You know, it's
12 not part of a scientific paper. I'm not 100
13 percent sure what this is, but I guess. It just
14 says "Our Experience." Whose experience? Maybe
15 these three guys, I guess. I don't know.

16 Q. Object. If there are three presenters
17 of this and they say "our experience," would you
18 not assume that the experience they are talking to
19 is their own?

20 A. Yes, but is it the three, is it one of
21 them? Sure.

22 Q. You do know that these three authors are
23 members of the TVM group, correct?

24 A. You told me that, yes, and I think --

1 Q. And you don't know that?

2 A. I don't know that for a fact because I
3 don't know that.

4 Q. But you wouldn't know that if I hadn't
5 told you?

6 A. That's correct.

7 Q. Okay. And we have already discussed
8 that Dr. Jacquetin is the patent holder on Prolift,
9 correct?

10 MR. MORIARTY: Objection, form.

11 A. You told me that. I didn't know that.
12 I don't have any reason to doubt.

13 Q. And they actually state here that it is
14 perspective, so whoever it is, I would assume "our
15 experience" is referring to the authors, but
16 whatever.

17 The prospective control of 107 patients
18 operated on between 2005 and 2006 with Prolift,
19 right? I read that correctly?

20 A. Yeah. You read everything just fine
21 typically.

22 Q. Okay. Let's go to their results. Okay?

23 A. Sure.

24 Q. The next page. And they are giving the

1 number of shrunked mesh and the mean shrinkage,
2 tenderness at palpation and the mean VAS in case of
3 tenderness, correct, is what is provided in this
4 table?

5 A. That's what it looks like, correct.

6 Q. And their conclusion was a mean 15 to 25
7 percent of shrinkage was perceived in 60 to 90
8 percent of cases, correct?

9 A. Yes. That's what they are saying here.

10 Q. That's their results that they are
11 reporting in this presentation, correct?

12 A. It looks that way.

13 Q. And then if we go to the next page --

14 A. Let me just point out, it doesn't
15 explain what scale they used or how they assessed
16 it per se, but those are the numbers they are
17 citing here.

18 Q. Okay. And then the next page is
19 "Clinical impact of mesh shrinkage," and it appears
20 that they are reporting on the same series of
21 patients. Agree?

22 A. I guess.

23 Q. And the first bullet is, "Spontaneous
24 pelvic/perineal pain related to severe mesh

1 shrinkage present in three patients, 2.8 percent,
2 with a mean VAS of 5/10."

3 Did I read that correctly?

4 A. Yes.

5 Q. The second bullet point is, "Tenderness/
6 pain at vaginal examination associated with mesh
7 shrinkage present in 21 patient, 19.6 percent, with
8 a mean VAS of 5 out of 10."

9 Did I read that correctly?

10 A. Yes.

11 Q. And of the 13 patients sexually active,
12 eight patients did not have dyspareunia, four
13 patients had unchanged dyspareunia and one patient,
14 de novo dyspareunia, correct?

15 A. That's correct.

16 Q. And eight patients sexually inactive,
17 including one because of de novo dyspareunia,
18 correct?

19 A. Correct.

20 Q. And then the next several pages are
21 ultrasonic evaluation of mesh shrinkage, correct?

22 A. Yeah. It looks like that's what they
23 are trying to do, yep.

24 Q. And it looks like it's from several

1 different authors; you would agree, correct?

2 A. Why do you think it's several different
3 authors? Is there a citation?

4 Q. I at least see one that's from Tunn,
5 T-u-n-n. I see one from Velemir, V-e-l-e-m-i-r. I
6 see one that's from Shek, S-h-e-k. I think there
7 are actually more than one study from Velemir.

8 A. Okay. And there is one, Lemmery, it
9 looks like. Okay.

10 Q. And these all use transvaginal introital
11 ultrasound, correct, unlike Dr. Dietz?

12 A. I guess, yes.

13 Q. It says "How to assess?

14 Ultrasonography," and it says "Transvaginal
15 introital ultrasound," right?

16 A. That's what it says on that first page.

17 Q. It doesn't mention ultrasound by any
18 other technique, does it?

19 A. No, not that I can see.

20 Q. And it says ultrasonography can give
21 objective measurement of length, configuration and
22 thickness, correct?

23 A. That's what it says.

24 Q. And it can give a better understanding

1 of recurrence and postoperative pain or
2 dyspareunia. I'm reading that correct, right,
3 correctly?

4 A. You are reading it correctly.

5 I guess just to make clear, just because
6 you are reading it and I agree hat you are reading
7 everything accurately doesn't mean I agree or
8 disagree with any of these things, right?

9 Q. I understand.

10 A. I'm just agreeing with your ability to
11 read it.

12 Q. That's right, and I may ask followup
13 questions later, but I will ask you if you agree or
14 disagree when that's what I want to know.

15 A. Terrific.

16 Q. Understanding that you are not an expert
17 in ultrasound evaluation of pelvic -- of mesh in
18 the pelvic floor, you would agree that many of
19 these ultrasound images in this presentation show
20 folded, wrinkled or bunched mesh, would you not?

21 MR. MORIARTY: Objection.

22 A. Why do you think that? Based on what?

23 Q. Okay. Let's go to the first page,
24 anterior mesh. Is the mesh in that picture lying

1 flat?

2 A. Well, as I said, I don't do these
3 ultrasounds. If this line represents the mesh,
4 that line between the bladder, the translucent
5 bladder image and then the probe, you know, it's
6 perfectly straight. I don't know. I mean, there
7 is obviously contours in the vaginal wall. I'm not
8 sure I see a fold there, if that's exactly -- if
9 that's what the mesh is there, that white line.

10 Q. Is it lying flat?

11 A. Well, it may be lying --

12 MR. MORIARTY: Objection. He just
13 answered the same question.

14 MS. THOMPSON: He didn't.

15 MR. MORIARTY: Yeah, he did.

16 MS. THOMPSON: All right.

17 A. If it's a bumpy surface, it may be lying
18 perfectly flat on a bumpy surface.

19 Q. Let's go to the total monobloc mesh, and
20 look in the picture upper right-hand side. Is that
21 piece of mesh lying flat?

22 MR. MORIARTY: Objection. Just let

23 the record reflect someone has drawn lines

24 over the ultrasound image in these PowerPoint

1 slides.

2 BY MS. THOMPSON:

3 Q. Are you not able to interpret these
4 ultrasounds? If so, we will just move on.

5 A. I'm happy to try, but I think it's wrong
6 to assume that like the one that shows that "U,"
7 right, kind of in a "U" configuration, that might
8 be a sling, and that's exactly what you expect it
9 to look like, it looks like a "U," and it's lying
10 perfectly flat because the "U" represents the
11 proximal urethra, and that's exactly what it should
12 look like.

13 So, right, I don't expect it to be a
14 straight line. The vagina is not filled with
15 straight lines. The vagina has, you know, curves
16 and folds, and obviously the slings will always
17 be -- you know, they should look like that, it
18 should look like a "U."

19 So, I apologize I'm not more
20 knowledgeable about this, but I can't answer
21 whether it's flat or not. That might be perfect.

22 Q. On that page that says total monobloc
23 mesh, you are saying that the image on the
24 right-hand side could be a sling?

1 A. Yes. I don't know.

2 Q. And then the page that is the link of
3 the Sonomorphological Evaluation of Polypropylene
4 Implants by Tunn, is the mesh on the left-hand side
5 of that lying flat?

6 MR. MORIARTY: I'm sorry. Where are
7 you?

8 THE WITNESS: Next one.

9 MR. MORIARTY: Okay. Thank you.

10 A. So, there is two on this page. There is
11 a left-sided one and a right-sided one. This one
12 isn't as clear to me. I guess I don't know. I
13 don't want to comment.

14 Q. Okay. And the results from Dr. Tunn's
15 study state that the decrease of the length size of
16 60 percent, states that there is a decrease of the
17 length size of 60 percent for the anterior mesh and
18 of 65 percent for the posterior mesh.

19 Is that a significant amount of
20 shrinkage in your opinion?

21 MR. MORIARTY: Objection. Go ahead.

22 A. I guess I would only say I would
23 correlate that with -- with the anatomic exam, and
24 so I don't know whether it's significant or not. I

1 don't think I need to see it correlated with the
2 objective anatomic exam, vaginal exam and also
3 patient symptoms.

4 Q. I'm not asking about exam and symptoms.
5 I'm asking about is Dr. Tunn's findings that the
6 mesh shrinks, and we have defined that as decrease
7 in length size, 60 percent in the anterior and 65
8 percent of the posterior mesh. Is that a
9 significant amount of shrinkage?

10 MR. MORIARTY: Objection, asked and
11 answered.

12 A. Well, again, the mesh is only there to
13 help the cystocele or the rectocele. So, if that
14 shrinkage isn't causing any problems, then it's not
15 significant, and I just don't know if -- again,
16 there is no correlation with the anatomy or the
17 patient symptoms and such, so I'm not sure how to
18 interpret it. It's just a number.

19 Q. And he also found that the mesh
20 supported 40 percent of the length of the anterior
21 vaginal wall and 50 percent of the length for the
22 posterior mesh. Is that significant?

23 A. Same response to the previous question.
24 I don't know.

1 Q. On the following page, the paper by
2 Dr. Shek, who looked at 46 patients with
3 transobturator anterior mesh and concluded that
4 patients with good clinical results had mesh well
5 spread out, minimal folding and both effective
6 anchoring arms, would you agree that that's what
7 would occur in patients with good clinical results?

8 A. Well, it says "patient." It's not
9 plural. It says "patient," so a patient with good
10 clinical results, and I guess a good clinical
11 result is desirable.

12 It's nice to see that this one patient
13 with a good clinical result, it looks like the mesh
14 is where he expects it to be, there is minimal
15 folding and the anchoring arms seem to be
16 effective. But as I said, I just don't know if
17 that means if it's -- if the reason for the
18 clinical results is because it looks so good on
19 ultrasound.

20 Q. So you think that only one of the 46
21 patients he looked at had the good clinical result?

22 MR. MORIARTY: Objection.

23 A. No. I didn't say that.

24 Q. Well, you said it referred to one

1 patient.

2 MR. MORIARTY: Well, it does. It's
3 singular right on the page you are reading
4 from.

5 MS. THOMPSON: Okay. Well, we will
6 just go with that then. We will assume one
7 out of 46 patients had the good clinical
8 result.

9 MR. MORIARTY: Objection, form and
10 otherwise. You can't assume that. You just
11 asked him about what's printed on this page.
12 You haven't given him the study.

13 MS. THOMPSON: I suspect that's a
14 typo, but if he believes that refers to one
15 patient, it is on the record.

16 BY MS. THOMPSON:

17 Q. Going to the next page, Shek study, in
18 that one a patient with recurrent cystocele had
19 dislodgment of the superior arm and voiding
20 dysfunction. Would you agree that dislodgment of a
21 arm of Perigee could cause recurrence and voiding
22 dysfunction?

23 MR. MORIARTY: Objection. Go ahead.

24 A. I don't think the -- I would disagree.

1 I don't think the arm causes it. I think the
2 recurrent cystocele can cause voiding dysfunction
3 and whether the recurrent cystocele is because of
4 the dislodgment of one of the arms, I guess I'm not
5 sure.

6 Q. Velemir on the next page in this paper
7 states that recurrences are associated with severe
8 mesh retraction. Would you agree that recurrences
9 are associated with severe mesh retraction?

10 A. I'm sorry, counsel. Which page? This
11 next one, Velemir?

12 Q. The results at the top of the page,
13 Velemir.

14 A. I'm sorry.

15 Q. "Recurrences after transvaginal mesh
16 repair are associated with severe mesh retraction
17 and loss of mesh support on the distal part of the
18 vaginal walls."

19 Would you agree that recurrences are
20 associated with severe mesh retraction?

21 A. I guess they may be associated with some
22 mesh retraction, but I think the more important
23 thing is the second part of that sentence, loss of
24 mesh support. So, I think it's the support, not so

1 much whether the mesh is contracted a little. I
2 think it is the actual support that is more
3 essential to the recurrence.

4 Q. Do you use sutures to fix -- when you
5 used Prolift, did you use sutures to fix the
6 device?

7 A. On a case-by-case basis. There
8 wasn't -- sometimes we would supplement things by
9 helping it sort of spread out if the anatomy
10 necessitated it, so there wasn't a always suture
11 use or always no suture use.

12 Q. I'm going to skip ahead to the "Reduce
13 mesh exposition 10 rules."

14 A. How far along are we?

15 Q. I don't know. Past all the ultrasounds.

16 A. Okay. "How to prevent expert opinion,"
17 is that it?

18 Q. No, the next one, "Reduce mesh
19 exposition."

20 A. Got it.

21 Q. What is mesh exposition?

22 A. Extrusion, exposure.

23 Q. Do you agree that experienced surgeons
24 have less, a lower exposure rate than inexperienced

1 surgeons?

2 MR. MORIARTY: Objection, form.

3 A. I would like to think so. Obviously you
4 need to get some studies of inexperienced surgeons
5 and correlate that with the experienced surgeons,
6 but I think in general probably experienced
7 surgeons tend to get better outcomes.

8 Q. And you would agree that most of the
9 peer-reviewed literature is published by
10 experienced surgeons, correct?

11 A. Not always, but a lot of it is, sure.

12 Q. And because of that, you oftentimes
13 don't see results in the peer-reviewed literature
14 of less experienced community surgeons, correct?

15 A. I think it's safe to say that all the
16 results that occur of any procedure between
17 experienced or inexperienced surgeons, not
18 everything makes its way into the -- into the
19 literature.

20 Q. Let's talk about Prolift in particular.
21 Are any of the Prolift studies published by
22 inexperienced community surgeons?

23 MR. MORIARTY: Objection.

24 MS. THOMPSON: It's a good question.

1 actually.

2 MR. MORIARTY: It's a great question
3 but not for this setting, so I will object to
4 it, form and otherwise, but you can answer it.

5 A. Well, you know, I don't -- I will just
6 answer by saying I don't know what absolute number
7 you go from inexperienced to experienced, and we
8 can argue about that all day, right, and so you
9 would have to look at it. But there is a lot of
10 studies, and really, without looking at every
11 single one of them it would be hard to say.

12 I think your point earlier, generally
13 more experienced surgeons have more results to
14 write about and generally write up their
15 experiences. So, less experience, whether you are
16 in an academic institution or in private practice,
17 probably write up their experience less just
18 because they have smaller numbers; and when we try
19 to publish papers, a greater experience allows you
20 to get the paper published.

21 Q. Let's narrow it down a little bit. Are
22 any of the Prolift RCTs published by community
23 physicians?

24 A. So, for instance, Peter Sand here in

1 Chicago, he works at Evanston Hospital. He is in
2 private practice, so he is considered a community
3 doctor even though he has got a fellowship. So, it
4 depends on how you define these things. Again, I
5 don't know if it is a good terminology to use
6 community or --

7 Q. Are any of the Prolift RCTs published by
8 community surgeons?

9 MR. MORIARTY: Objection, asked and
10 answered.

11 Q. He talked about Peter Sand. Peter Sand
12 hasn't published an RCT on Prolift, has he?

13 A. Well, he published on a lot of
14 experiences with mesh-type procedures.

15 Q. Has he published an RCT on Prolift?
16 That was the question.

17 A. I don't think so. He has published on
18 Boston Scientific's product.

19 Q. I will ask again. Have any of the
20 Prolift RCTs been published by community
21 physicians?

22 A. I'm not sure.

23 Q. And if that's what you are relying on
24 for your data, you would not be able to determine

1 data that would be coming from community surgeons,
2 correct?

3 A. No. Why is that?

4 MR. MORIARTY: What's what you are
5 relying on data?

6 Q. If you are relying on Prolift RCTs for
7 data, you would not be able to determine what the
8 data would be if reported by community physicians,
9 correct?

10 A. Well, we just said we are not sure
11 whether some of the community physicians have
12 published [overlapping and indistinguishable
13 speaking].

14 Q. Assuming that -- that no RCTs have been
15 published on Prolift by community physicians, you
16 wouldn't be able to tell what the community
17 physician experience would be compared to the
18 physicians who are publishing the RCTs, correct?

19 A. Well, no. You wouldn't have RCTs but
20 we -- you know, we get community experiences all
21 the time. We see their patients because they get
22 sent into academic centers. We go out to --

23 Q. With complications, right?

24 A. Sometimes there are complications. We

1 go out to, you know, dinner and we have, you know,
2 meetings and we have a Chicago Urologic Society.
3 We talk about this all the time.

4 So, I think at least in Chicagoland the
5 community urologists have a lot of input into sort
6 of our -- you know, what we discuss and stuff, so
7 we have some sense about that. But I guess, no, if
8 they are not -- the RCTs, if they are not producing
9 any RCTs, then obviously we are not going to get
10 that information on RCTs.

11 Q. Do you agree that there is a knowledge
12 gap between community mesh users and academic
13 physicians who are taking care of mesh
14 complications, as is well published in the medical
15 literature?

16 A. That the knowledge gap is well
17 published?

18 Q. A knowledge gap.

19 A. You say there is a knowledge gap that's
20 well published?

21 Q. Yes. Do you believe there is a
22 knowledge gap as is published in the literature?

23 A. Well, I think that's an awfully broad
24 statement to make. I think some community guys,

1 there may be a knowledge gap, but, you know, I
2 don't know if it's universal.

3 Q. I didn't ask if it's universal. Is
4 there a gap?

5 A. Well, again, yes. So, no; there is a
6 gap in some places, there is not a gap in other
7 places. So, you know, again, you have to say
8 where. I mean, there is some excellent -- some
9 doctors I trained who have had a wealth of
10 experience working with me and work at Christ
11 Hospital, you know, seven miles down the road; and
12 so he is a community urologist but he is excellent,
13 has a wealth of experience. So, I'm not sure.
14 There wouldn't be a gap between he and I.

15 Q. Moving to the page -- well, "Use large
16 mesh taking into consideration a global mesh
17 shrinkage of 40 percent." Do you see that page?

18 MR. MORIARTY: Where are you?

19 MS. THOMPSON: Two pages from where we
20 were.

21 BY MS. THOMPSON:

22 Q. Well, let's go to the next page. So,
23 the next page is how to prevent mesh shrinkage, and
24 that would be modulate the mesh characteristics,

1 and it includes mesh size, pore size, quantity of
2 materials, other including textile structure, weave
3 configuration and fiber diameters.

4 A. What is this referring to? It says how
5 to prevent. What are they preventing here? What
6 is it?

7 Q. Well, don't you think they are talking
8 about mesh shrinkage since it's how to prevent?

9 A. Well, the previous slide was on mesh
10 exposure, so why do you think it --

11 Q. Okay. Well, let's say either one.

12 Let's say mesh exposure or shrinkage, how to
13 prevent, modulate the mesh characteristics. Do you
14 believe that mesh characteristics have something to
15 do with mesh exposure or mesh shrinkage?

16 A. I think the quality of the mesh has a
17 lot to do with outcomes.

18 Q. The next page, "Use large mesh taking
19 into consideration a global mesh shrinkage of 40
20 percent." Is 40 percent mesh shrinkage that you
21 need to take into consideration significant?

22 A. Again, we talked a little bit about that
23 before. No, I don't know where that 40 percent
24 number comes from.

1 Q. We are going through this paper with 25
2 citations, all of which are discussing shrinkage
3 and the clinical implications; and the only paper
4 you provided in your expert report was one from
5 Dietz, the only paper in the literature that
6 questions the phenomenon of mesh shrinkage. Why is
7 that? I can't understand it.

8 MR. MORIARTY: Objection, form. Go
9 ahead.

10 A. Again, counselor, you know, if I had --
11 if I probably had more time I probably would have
12 included more resources and references, but, you
13 know, we picked out some of the papers we did, and
14 certainly you are allowed to be critical of some of
15 them. But you know, it's a published paper in the
16 peer-reviewed literature, and obviously it's been
17 peer reviewed. You know, we selected it, so I
18 don't --

19 Q. It was one paper that supported your
20 opinion, correct?

21 MR. MORIARTY: Objection. Go ahead.

22 A. Yes.

23 Q. And who is "we"?

24 A. Well, again, it's my work, but as you

1 know, it was, you know, put together and looked at
2 by some of the other attorneys and such. But
3 again, it's my work, it's my report.

4 Q. And then the next page, "Influence of
5 mesh porosity on tissue reaction and mesh
6 shrinkage." Would you agree that mesh porosity has
7 an effect on tissue reaction and mesh shrinkage?

8 A. Yes.

9 Q. And there are three publications
10 supporting that, correct?

11 A. I'm sure there is more, but there are
12 three cited here in this, on this slide.

13 Q. And the next page, "Influence of mesh
14 quantity." Do you agree that lightweight meshes
15 may have greater biocompatibility and may reduce
16 patient complaints?

17 A. Yes, I would agree with that.

18 Q. And less material equals less host
19 tissue response; do you agree with that?

20 A. Correct.

21 Q. And there are four citations for those
22 statements, correct?

23 A. Yeah, it looks like maybe three on that
24 one. Is there three?

1 Q. Three. Sorry. I meant three.

2 A. That's okay, counsel. We have been
3 going for three hours. That's no problem.

4 Q. We are on the next page. We'll skip how
5 to prevent the future.

6 "How to manage dyspareunia, shrinkage
7 and bands," and it gives the various methods of
8 treating dyspareunia, shrinkage and bands.

9 Did you see anything in the information
10 that Ethicon provided to physicians that advised
11 physicians on management of the mesh complications
12 with their products?

13 A. Anything like a -- what specifically?

14 Q. Like if you talked anything about
15 removing mesh or managing mesh complications.

16 A. I don't think so.

17 Q. Going to "Mesh excision, Our
18 experience," and I'm going to assume that's the
19 experience of the authors of this presentation, but
20 whichever, they report 121 surgical procedures
21 performed by vaginal mesh complications in our unit
22 from 1997 to 2006. That's what it says, right?

23 A. That's what it says.

24 Q. And most cases were referred.

1 Is it your experience that most cases of
2 mesh complications are referred rather than treated
3 by the original implanting surgeon?

4 A. You know, I'm not 100 percent sure the
5 denominator, but I can tell you my personal
6 experience is that the vast number, the much higher
7 percentage of the mesh complications I have taken
8 care of have been referred in. They are not my own
9 patients.

10 Q. And you are aware that the medical
11 literature also supports that most referrals into
12 tertiary academic centers are coming from someone
13 other than the original implanting surgeon,
14 correct?

15 A. Well, sure. It wouldn't be a referral
16 then if it was your own patient.

17 Q. No. I'm saying the referrals are not
18 coming from the original implanting surgeon; they
19 are coming from someone other than the original
20 implanting surgeon.

21 MR. MORIARTY: Objection. You mean
22 like lawyers, or what are you talking about?
23 Doctors?

24 MS. THOMPSON: Doctors other than the

1 original implanting surgeon.

2 A. I didn't know that. Is there literature
3 to support that? I didn't know that.

4 Q. Yes, there is.

5 A. Okay.

6 Q. And so in their experience here, of the
7 121 surgical procedures to remove -- and we don't
8 have a denominator at least on this page that we
9 are looking at, correct?

10 A. Sure.

11 Q. And probably not in the procedure since
12 most of them were referred.

13 Pain is the reason for the surgical
14 procedures in 19.8 percent, at least in this
15 experience, correct?

16 A. Yes. That's what it says here.

17 Q. And removing mesh can be a morbid
18 procedure, correct?

19 A. It can be.

20 Q. And it's not something that you would
21 take lightly, remove a patient's mesh for lots of
22 reasons, correct?

23 A. Well, it depends on the patient and the
24 amount of mesh, but in general, sure, it's a

1 complication. And again, I like to think that any
2 procedure we do we take seriously, but for sure.

3 Q. Because it could create a recurrence of
4 the condition, correct?

5 A. Absolutely.

6 Q. It could not alleviate the symptoms that
7 the patient is presenting with, correct?

8 A. Depending on the symptoms it may not.

9 Q. And at least in some procedures removing
10 the mesh requires extensive dissection and
11 sometimes damage to adjacent organs, correct?

12 A. Well, I guess there was a risk of damage
13 to the adjacent organs. I like to think that in
14 the academic centers where people have experience
15 we are generally not damaging adjacent organs,
16 but...

17 Q. What about in nonacademic centers where
18 the physicians don't have the experience that you
19 do?

20 A. I'm not sure what's going on in those
21 places.

22 Q. And you have never seen anything
23 published by community doctors that are taking care
24 of mesh complications or removing mesh either,

1 correct?

2 A. Yes, I can't say I have, but there is a
3 lot of literature out there. There may be some of
4 those papers were community doctors, possibly.

5 Q. Going to the "Concerns raised by mesh
6 removal."

7 A. Yep.

8 Q. Let's go to the second bullet point.
9 "Severe mesh retraction often requires a complete
10 removal of the mesh to relieve symptoms and avoid
11 multiple procedures." Would you agree with that?

12 A. It may. It's a very broad statement.
13 I'm not sure you can say that it always requires
14 complete removal of the mesh.

15 Q. Well, the statement was often requires,
16 so not may and not always. Would you agree that
17 severe mesh retraction often requires a complete
18 removal of the mesh?

19 A. I don't know. What does often mean?
20 What percentage of the time?

21 Q. So you can't answer that question,
22 whether you agree or disagree with that statement?

23 A. Well, no. I agree that it may require a
24 complete removal. I just didn't want to quantitate

1 the frequency.

2 Q. My question wasn't whether it may. My
3 question is do you agree with the statement severe
4 mesh retraction often requires a complete removal
5 of the mesh to relieve symptoms and avoid multiple
6 procedures?

7 A. Wait. So as I said, if it said "may"
8 and not "often" I would agree with it. I don't
9 know what the difference is between "may" and
10 "often."

11 Q. So you can't answer the question if you
12 use the word "often" because you don't know what
13 "often" means; is that what you are saying?

14 A. Correct.

15 Q. And that's fine. I just want to make
16 sure we have the correct opinion.

17 A. I agree. I'm just trying to be accurate
18 with my statements.

19 Q. Okay. Three, "If the arms of the mesh
20 are involved in the symptoms, the dissection has to
21 be carried out quite laterally so the arms can be
22 transected as deep as possible."

23 Do you agree with that statement?

24 A. I agree with that statement.

1 Q. The next one, "Complete resection may
2 induce prolapse recurrence and vaginal distortion/
3 shortening which can be taken into consideration
4 before and during the surgery." Do you agree with
5 that statement?

6 A. I agree with that statement.

7 Q. Okay. Let's go to the conclusion page,
8 the next page. "Conclusion. Mesh shrinkage is
9 real." Does that contradict your opinions given in
10 your expert report?

11 MR. MORIARTY: Objection.

12 A. I think all along I have told you that I
13 believe mesh shrinkage can occur. At issue I think
14 between you and I was how clinically relevant it
15 is.

16 Q. Let's read your exact statement, which
17 is "There is no medical literature conclusively
18 establishing that mesh contracts with vaginal use
19 to clinically significant degrees." Is that still
20 your opinion?

21 A. Yes.

22 Q. Despite these 25 papers cited in this
23 describing significant mesh contraction and the
24 clinical implications, you still will go with your

1 opinion based on Dr. Dietz's article only there is
2 no medical literature conclusively establishing
3 that mesh contracts with vaginal use to clinically
4 significant degrees?

5 MR. MORIARTY: Objection, form. Go
6 ahead.

7 Q. Are you maintaining this opinion?

8 A. I'm maintaining that opinion.

9 Q. And mesh shrinkage occurs during the
10 scarring and remodeling process; do you agree with
11 that?

12 A. Yes.

13 Q. May result in an unpredictable way in
14 severe complications, including dyspareunia, pain
15 and recurrence; I guess you disagree with that
16 statement?

17 MR. MORIARTY: Objection, form. Go
18 ahead.

19 A. Well, yes, I guess I would disagree with
20 that. I guess it's unpredictable. I would agree
21 that everything is unpredictable here with mesh
22 shrinkage and these complications.

23 Q. Do you agree that mesh shrinkage may
24 require mesh removal?

1 A. In and of itself, a small degree of
2 shrinkage, I don't know why then it would
3 necessitate mesh removal. I think you would have
4 to have other symptoms to require mesh removal:
5 Recurrence of the prolapse, pain, infection,
6 exposure, et cetera.

7 Q. I'm just asking whether you agree with
8 the statement mesh shrinkage may require mesh
9 removal. Do you disagree or agree with that
10 statement?

11 A. I disagree with that. Why would it?

12 Q. Mesh shrinkage must be taken into
13 consideration during patient counseling before
14 surgery; do you agree or disagree with that
15 statement?

16 A. I think as opposed to or as it relates
17 to outcomes, I think patient counseling should
18 include comments about the mesh, the implications
19 of the mesh and what may occur with the mesh after
20 the fact.

21 Q. I assume you would not counsel your
22 patients on mesh shrinkage since you don't believe
23 that there is any literature that establishes that
24 it contracts with vaginal use to clinically

1 significant degrees, correct?

2 A. That's correct. I specifically don't
3 talk about shrinkage as one of my concerns and side
4 effects and complications.

5 MR. MORIARTY: You have seven or eight
6 minutes left. I'm on analog.

7 MS. THOMPSON: Okay. I trust you will
8 let me go a few minutes beyond that.

9 MR. MORIARTY: Don't necessarily
10 assume that.

11 MS. THOMPSON: Considering we have
12 three products and I am entitled to three plus
13 two, plus two and I only agreed to a limited
14 time for the Doctor.

15 MR. MORIARTY: I negotiated a time
16 with Fidelma because there was a disagreement
17 over how much time we got. Does that
18 necessarily mean I have to give you a bunch
19 more time?

20 MS. THOMPSON: So that's seven minutes
21 on the record that I have left? You didn't
22 count right?

23 MR. MORIARTY: I subtracted breaks. I
24 took a break at 90 minutes, 90 minutes, and we

1 are counting down to 60 minutes.

2 MS. THOMPSON: I will do my best to
3 finish in seven minutes.

4 MR. MORIARTY: I will give you an
5 extra minute or two if you are right in the
6 middle of something, but....

7 MS. THOMPSON: Wow. That's hard core.

8 MR. MORIARTY: Well, I have been held
9 to the same time limits in every deposition.

10 MS. THOMPSON: I have certainly given
11 my defense counsel some latitude, particularly
12 when there is this much to cover in the three
13 hours or whatever it is, so, but I will try --
14 we are wasting time, so can we take off --

15 MR. MORIARTY: We have six more hours
16 after you are done.

17 MS. THOMPSON: I understand.

18 And if we can subtract that couple
19 minutes for the discussion, that would be
20 nice. I actually just have a few more
21 questions.

22 BY MS. THOMPSON:

23 Q. What does mesh degradation mean to you?

24 A. What does it mean to me?

1 Q. Um-hmm.

2 A. Well, that the mesh may -- I guess the
3 term "degrade" just means it may sort of fracture
4 and fragment and come apart a little bit.

5 Q. And is it your opinion that
6 polypropylene mesh in the Prolift and Gynemesh
7 products does not degrade?

8 A. My opinion would be that it does not
9 degrade to any clinically relevant degree.

10 Q. And if you were shown Ethicon documents
11 that contradict that, would that change your
12 opinion?

13 MR. MORIARTY: Objection, form. Go
14 ahead.

15 A. No.

16 Q. And what is the basis for your opinion
17 that polypropylene mesh as used in the Ethicon
18 products does not degrade?

19 MR. MORIARTY: Objection, form. Go
20 ahead.

21 A. So, primarily my hundreds of cases that
22 I have done and the other probably 150 cases of
23 going back in mesh-related complication cases and
24 such, and it's just never been my experience that

1 degradation has -- is a reason for any -- any -- is
2 a cause of any clinical significance.

3 Q. Is there any peer-reviewed literature
4 that would tell you that polypropylene mesh in
5 Ethicon products does not degrade?

6 A. I don't think there is good literature
7 supporting that it does or does not that has any
8 clinical significance.

9 Q. What have you done in your clinical
10 practice to test for degradation?

11 A. Well, obviously we go back sometimes
12 when we go back and reoperate and so you find the
13 mesh, and it's never been my experience that the
14 mesh is gone or has fragmented or is no longer in
15 place. Again, it always scars in pretty well and
16 it always seems like the mesh is pretty intact, so
17 that's why it --

18 Q. Does the fact that it's not gone mean it
19 hasn't degraded?

20 A. Well, if it degrades, you would expect
21 it, right, to fragment and be apart and not still
22 be a continuous body and have the same degree of
23 cohesiveness.

24 Q. Have you ever looked at degradation

1 histologically in mesh samples?

2 A. I have been shown pictures and stuff,
3 and there has been some literature on that a little
4 bit. But as I said, I don't disagree that perhaps
5 some degradation may occur. The thing is whether
6 it occurs to the extent that it is of any clinical
7 relevance. Histologically or under the microscope,
8 you know, you might be able to see a few fragments
9 or what have you, but I don't think that equates to
10 any appreciable concern clinically and surgically.

11 Q. What would be the latency period between
12 placement of mesh and the development of a
13 malignancy if it were to occur?

14 A. The latency period?

15 Q. Yes. Do you know what latency period
16 means?

17 A. I do.

18 Q. Okay. What would be the latency period
19 as published?

20 A. Well, I mean, obviously a latency period
21 could be anything, right? You can have a mesh --
22 you know, we have been putting these things in
23 since, what, 2005, 2006 we said. So, you know,
24 maybe there is latency period of 40 or 50 years.

1 I just don't know, but I don't think there is any
2 literature to support that there is any concerns
3 about a latency period and the development of
4 carcinogenesis.

5 Q. If the latency period was 30 years, we
6 have not been using transvaginal mesh long enough
7 to be able to appreciate whether there is a
8 malignancy potential or not, correct?

9 A. That's absolutely correct.

10 Q. Going to your opinions regarding your
11 opinions the IFU, it's your opinion that the IFU is
12 not intended to serve as a comprehensive guide,
13 correct?

14 A. The IFU is not a comprehensive guide.

15 Q. And is it also your opinion that all of
16 the -- well, I will just read it. Isn't it your
17 opinion that the Prolift IFU adequately warned of
18 all risks and potential complications associated
19 with the Prolift?

20 A. I think on balance the IFU was thorough.

21 Q. So it did warn of all risks and
22 potential complications associated with the
23 Prolift?

24 A. Well, one risk of doing vaginal surgery

1 or any surgery is a patient can have a heart attack
2 or a patient could die from the anesthetic. So,
3 the IFU didn't discuss that, so no, the IFU wasn't
4 100 percent comprehensive because there is always
5 complications that can occur that aren't cited.

6 Q. Did the IFU discuss chronic pain?

7 A. We will have to pull out the IFU so I
8 can read it. There has been several variations and
9 several versions of the IFU, right? So it changed
10 a little bit.

11 MS. THOMPSON: Mark that.

12 (Bales Exhibit 27 was marked for
13 identification.)

14 BY MS. THOMPSON:

15 Q. Is this a Prolift IFU that I just handed
16 you and marked as Exhibit 27? Does it contain
17 anything regarding chronic pain?

18 A. Yes. It discusses inflammation and, you
19 know, scarring.

20 Q. Is inflammation and scarring the same as
21 pain?

22 A. Well, it causes pain. It doesn't use
23 the terminology "pain."

24 Q. Well, it does use the terminology

1 "transient leg pain may occur and can usually be
2 managed with mild analgesics," but my question is
3 does it say anything about chronic pain?

4 MR. MORIARTY: Objection, form.

5 BY MS. THOMPSON:

6 Q. I don't have very much time. If you
7 could try as best you can to answer.

8 A. Well, there is ten bullet points, so I'm
9 just -- so no, I don't think so.

10 Q. Or else I can go off the record each
11 time you are thinking.

12 A. I don't think so.

13 Q. Okay.

14 A. I guess not.

15 Q. Is there anything that discusses a need
16 for multiple corrective surgeries or any corrective
17 surgery?

18 A. No.

19 Q. Is there anything that mentions that the
20 complications may be permanent?

21 A. It doesn't say anything about permanent
22 complications.

23 Q. What's the rate of exposure with
24 Prolift?

1 A. Again, there is various rates, and it
2 depends whether there was an associated
3 hysterectomy, so it's not at simple as just saying
4 Prolift across the board.

5 I think there is risk factors that can
6 make a higher incidence occur. So, in general it
7 can be anywhere from, you know, 1 to 15 to 20
8 percent, but as I said, there is multiple factors:
9 Atrophic changes in the vagina, history of
10 radiation. So, it's hard to just come up with just
11 one number.

12 Q. You discuss in your report several
13 patient conditions that increase risk, including
14 smoking, poorly controlled diabetes, early return
15 to exercise, lifting or vaginal sexual activity --
16 I'm on Page 7 and 8 -- and noncompliance with
17 estrogen supplementation, and then also younger
18 age, higher parity and concomitant hysterectomy.

19 Is there anything in the IFU about those
20 conditions being risk factors for Prolift
21 complications?

22 A. I don't think it discusses a whole lot
23 about potential risk factors.

24 Q. Do you believe -- I'm going to hand you

1 the Gynemesh.

2 MR. MORIARTY: So we are already past
3 the time.

4 MS. THOMPSON: I would like to have
5 five more minutes. I have one more exhibit
6 after this.

7 MR. MORIARTY: Five minutes less for
8 Jake and Steve.

9 MR. PLATTENBERGER: We will give up
10 five minutes, won't you, Steve?

11 MS. THOMPSON: I'm going to be much
12 more hard core with my defense counsel.

13 (Bales Exhibit 28 was marked for
14 identification.)

15 BY MS. THOMPSON:

16 Q. I will represent for the sake of time
17 that this is the 2015 Gynemesh IFU, and you know
18 that in this IFU that transvaginal use of Gynemesh
19 is not included in this IFU, correct?

20 A. Yes, okay.

21 Q. And you will agree with me also that
22 there is a much longer list of adverse reactions in
23 the 2015 Gynemesh IFU than are in the ProLift,
24 correct?

1 A. Yeah, there is a lot more bullet points.

2 Q. Dr. Bales, do you believe that mesh
3 complications are overexaggerated or exaggerated?

4 MR. MORIARTY: Objection, form. Go
5 ahead.

6 A. I don't know if I can say one way or the
7 other.

8 Q. You can't say one way or the other
9 whether mesh complications are exaggerated?

10 A. Well, so let me answer that as
11 accurately as I can. I think there are some
12 patients who overexaggerate their complications,
13 but, you know, complications with mesh surgeries
14 and any surgery, there is complications that occur,
15 and so I don't know if we can say exaggerated or
16 overexaggerated. So, as I said, it depends on a
17 case-by-case, patient-to-patient basis.

18 For sure there are patients who I see
19 commonly who have heard about the litigation and
20 certainly overestimate the risk of having had the
21 mesh. I guess that's as accurate as I could be.

22 MS. THOMPSON: If we could go ahead
23 and mark that as 29.

24 (Bales Exhibit 29 was marked for

1 identification.)

2 BY MS. THOMPSON:

3 Q. Do you remember seeing this in Urology
4 Times Urology titled "FDA warning on mesh held
5 little surprise for urologists"?

6 A. Yeah.

7 Q. And do you see that you are one of the
8 several urologists quoted in this what we sometimes
9 call throw-away journal, correct?

10 A. You are disparaging me now. Come on.

11 MR. MORIARTY: No. She is disparaging
12 the journal.

13 Q. Under "Concerns exaggerated?" it says,
14 "Although he knows there can be complications,
15 Gregory Bales, M.D..."

16 That's you, right?

17 A. That's me.

18 Q. And that's your picture, right?

19 "...suggests that some of the concerns
20 may be exaggerated for external reasons."

21 Did I read that correctly?

22 A. Yes.

23 Q. And is that your opinion still to this
24 day? I'm not sure when this was published. 2012.

1 A. Yeah. I think I just indicated a few
2 moments ago that some of the patients definitely
3 exaggerate their complications, so yes.

4 Q. And the quote, "At least here in
5 Chicagoland, we have a lot of radio and television
6 ads by attorneys, so it's on the patients' minds.
7 I try to be proactive and have a discussion before
8 surgery. We don't have an inordinate number of
9 complications with mesh, and I believe it gives
10 some patients a better long-term outcome."

11 Was that a quote that came from you?
12 You weren't misquoted on that?

13 A. I don't think so.

14 Q. And a little further down you say,
15 "Patients with significant atrophic changes won't
16 do us well and those patients at higher risk for
17 erosion."

18 You would agree with me that all
19 menopausal women have some degree of atrophic
20 changes unless they are on estrogen replacement,
21 correct, or local estrogen therapy?

22 A. Yes, postmenopausal to varying degrees.

23 Q. And so that you really can't use a mesh
24 device and count on a woman not having atrophic

1 changes, correct, if she lives long enough to go
2 into menopause?

3 A. Correct, and again, atrophic changes
4 vary from person to person considerably; and as you
5 just acknowledged, we can supplement their vaginal
6 tissue with hormonal cream and stuff to rid the
7 patient of those atrophic changes.

8 Q. Is there anything in the Ethicon
9 Gynemesh Prolift -- let me start over.

10 Is there anything in the Prolift IFU
11 that states that patients with significant atrophic
12 changes won't do as well?

13 A. I don't believe so.

14 MS. THOMPSON: That's all I have.

15 EXAMINATION

16 BY MR. MORIARTY:

17 Q. Okay. Doctor, I want to hand you
18 Exhibits 5 and 6. Do you believe that you were
19 paid those amounts in those years?

20 A. No, I don't remember being paid this
21 amount in these years.

22 Q. Do you know whether you signed
23 consulting contracts with Ethicon that had those
24 numbers as a maximum amount that could be paid in

1 those years?

2 A. I remember signing contracts and I don't
3 remember the amounts, but that certainly could be.

4 Q. Is there any Level 1 evidence that
5 Prolift surgery results in more pain than native
6 tissue repairs?

7 A. No.

8 Q. Typically do articles published in the
9 literature just report pain as an endpoint of the
10 study?

11 A. Do they report that?

12 Q. Pain as the endpoint of the study, as
13 the main outcome of the study.

14 A. Not typically.

15 Q. Prior to the use of mesh for --
16 transvaginal mesh for pelvic organ prolapse in the
17 early 2000s, was there literature regarding
18 anterior colporrhaphy, posterior colporrhaphy,
19 abdominal sacrocolpopexy and other surgeries which
20 report as part of their studies pain as a
21 complication?

22 A. Yes. We talked about that earlier.

23 Q. Is abdominal sacrocolpopexy primarily a
24 surgery for apical prolapse?

1 A. Yes.

2 Q. Can you take a look at Exhibit 11,
3 please.

4 MR. MORIARTY: Well, you know what?

5 Do you mind if I use this one so he doesn't
6 have to dig for it?

7 MS. THOMPSON: That's fine.

8 BY MR. MORIARTY:

9 Q. This is Exhibit 11 that Margaret asked
10 you about, the Oversand study. Do you remember
11 those questions?

12 A. Yes.

13 Q. And this is about long-term followup
14 after native tissue repairs only; is that correct?

15 A. Okay.

16 Q. In the charts that report the results
17 from their surgeries, do they have columns for
18 complications like de novo urinary incontinence?

19 A. Yes.

20 Q. Do they have columns for urinary
21 retention?

22 A. Yes.

23 Q. Do they have columns for dyspareunia?

24 A. Yes.

1 Q. In the dyspareunia column, are the rates
2 across this chart 8.3, 10.7 and 9.1 percent?

3 A. Yes.

4 Q. In this other chart on the following
5 page, Table 3, do they report de novo incontinence
6 and dyspareunia here?

7 A. Yes.

8 Q. Are the dyspareunia rates in Table 3
9 similar to the ones in Table 2?

10 A. Yes.

11 Q. Are the dyspareunia rates reported in
12 this article similar to the dyspareunia rates
13 reported in other articles about native tissue
14 repair and in articles about the Prolift?

15 A. Yes.

16 Q. Just because a surgeon may have concerns
17 about a procedure or a device, does that mean that
18 the risks of the surgery or the device outweigh the
19 benefits?

20 A. No.

21 Q. Does it mean just because a surgeon may
22 have concerns about something mean that the surgery
23 or the device is unreasonably dangerous?

24 A. No, not at all.

1 Q. Margaret asked you some questions about
2 Exhibit 23.

3 MR. MORIARTY: You are not offended if
4 I use your first name, are you?

5 MS. THOMPSON: No, I'm not. I was
6 going to say something cute, but I couldn't
7 think of it.

8 BY MR. MORIARTY:

9 Q. Do you remember some questions about
10 this vaginal mesh contraction article?

11 A. Yes.

12 Q. How many patients are in the study?
13 There are 17.

14 A. Okay.

15 Q. And is there anything in this paper that
16 describes in any scientific way the methodology
17 they used to attribute the clinical complaints of
18 pain or dyspareunia to mesh contraction?

19 A. No, it doesn't look like that was
20 resulted.

21 Q. Okay. Thank you. I just want to ask
22 you a couple questions about Exhibit 26. Do you
23 remember this PowerPoint that we went through
24 extensively? I want you to go to this page that

1 you weren't asked about called "The frequency of
2 mesh shrinkage."

3 A. How far in is that?

4 Q. It is about four pages in, five pages
5 in. Let's use this.

6 A. I got it.

7 Q. Does it say on the slide that the
8 frequency is unknown?

9 A. The first bullet point says unknown.

10 Q. Is there then a question in the second
11 bullet point about the clinical relevance of mesh
12 shrinkage?

13 A. It says, reading bullet point, "Clinical
14 relevance of mesh shrinkage?" It says, "Always a
15 certain degree of mesh shrinkage, asymptomatic in
16 most cases."

17 Q. Is that consistent with your experience,
18 that mesh shrinkage if it exists is asymptomatic in
19 the majority of cases?

20 A. That's been my experience.

21 Q. There is another page further back in
22 this. Let me find it. I think I dog-eared the
23 page. It is called "How to manage? Dyspareunia,
24 shrinkage and bands." Do you remember being asked

1 about this page?

2 A. Yes.

3 Q. Does one of the bullet points say, "Mesh
4 excision improves patient's symptoms in most
5 cases"?

6 A. That's what it says.

7 Q. Is that consistent with your experience?

8 A. Yes.

9 Q. When you gave your opinions to a
10 reasonable degree of medical probability, is your
11 understanding of that term that that has to do with
12 likelihood and probabilities and more likely than
13 not?

14 A. Yes, that's my understanding.

15 Q. Is "may" a term that in your
16 understanding is consistent with probability and
17 more likely than not?

18 A. In the context of what statement?

19 Q. In this context is "may" likelihood or
20 is "may" speculation?

21 MS. THOMPSON: I object to the form.

22 A. Well, I think it may depend on what
23 specifically I was saying, I guess, so I'm not sure
24 I can answer that 100 percent.

1 Q. But would you agree with me that if you
2 are saying something may happen that it's possible
3 it could happen?

4 MS. THOMPSON: Object, leading.

5 A. My terminology, "may" would be
6 consistent with "possible," not yes.

7 Q. Not probable?

8 A. Not probable. "May" would be a low
9 likelihood, possible.

10 MR. MORIARTY: That's all I have.

11 MS. THOMPSON: I have a couple of
12 followup questions.

13 MR. MORIARTY: Wait. Is there
14 redirect when you have already used all your
15 time?

16 MS. THOMPSON: I think Kersey would
17 allow me to address a couple of points you
18 make, and they can hopefully be very short
19 questions.

20 FURTHER EXAMINATION

21 BY MS. THOMPSON:

22 Q. You are aware that there is Level 1
23 evidence showing that mesh repairs have a higher
24 incidence of de novo stress urinary incontinence,

1 correct?

2 A. Depending on the study. Once again,
3 there is a broad --

4 Q. Are you familiar with the Ek study?

5 A. Yeah. Which one?

6 MS. THOMPSON: We can go ahead and
7 mark this as an exhibit.

8 (Bales Exhibit 30 was marked for
9 identification.)

10 MR. MORIARTY: Do you have a copy for
11 me?

12 MS. THOMPSON: I do.

13 THE WITNESS: Okay.

14 BY MS. THOMPSON:

15 Q. And this is randomized, controlled trial
16 results, correct? First sentence under "Materials
17 and Methods."

18 A. Correct.

19 Q. And the conclusion is just "Trocar
20 Guided..."

21 And that's Prolift, correct? Prolift is
22 trocar guided, correct?

23 A. Prolift is trocar guided.

24 Q. "...transvaginal mesh of anterior

1 vaginal wall prolapse results in a lowering of
2 MUCPs and increases the risk for de novo stress
3 urinary incontinence compared to colporrhaphy."

4 Did I read that correctly?

5 A. You did.

6 Q. And that would be Level 1 evidence of an
7 increased incidence of stress urinary incontinence
8 de novo after trocar-based mesh, correct?

9 A. It would be, although a very small
10 experience, 20-plus patients in either group.

11 MS. THOMPSON: And let's mark this as
12 the next one, whatever it is.

13 (Bales Exhibit 31 was marked for
14 identification.)

15 MR. MORIARTY: Is this the last one?

16 MS. THOMPSON: It is.

17 BY MS. THOMPSON:

18 Q. Are you familiar with the paper by --

19 MR. MORIARTY: Please stop. I need to
20 look at it because you don't have a copy for
21 me.

22 MS. THOMPSON: And I'm just reading
23 from this. "A significant correlation was
24 found between mesh retraction and the severity

of vaginal pain. Mesh retraction did not differ between patients with de novo SUI symptoms and those without this complication, and this was done with Prolift."

5 MR. MORIARTY: Objection. Is that a
6 question?

7 BY MS. THOMPSON:

8 Q. Did I read it correctly? And this study
9 was using Prolift, correct? You can look in the
10 abstract under "Methods."

A. Prolift, Prolift anterior mesh.

12 O. And I'm going to read a statement.

13 "A significant correlation was found
14 between mesh retraction and the severity of vaginal
15 pain." So at least in this paper a correlation was
16 found between mesh retraction and vaginal pain,
17 correct?

18 MR. MORIARTY: Objection, form. Go
19 ahead.

20 A. Evidently, yes.

21 Q. And this wasn't included in your expert
22 report, was it?

23 A. No.

24 MS. THOMPSON: No other questions.

1 (WHEREUPON, discussion was
2 had off the record.)

3 BY MS. THOMPSON:

4 Q. Matt, Dr. Bales, I would like to ask you
5 which products you intend to offer opinions on in
6 the sling cases because that will help us keep our
7 time down tomorrow if we can narrow that down.

8 A. Sure.

9 Q. I think counsel told me you were
10 planning on testifying regarding TVT retropubic
11 slings and that would include Exact and mechanical
12 cut and laser cut, correct?

13 A. Okay.

14 Q. And then the TVT-O?

15 A. Correct. Also, I could be asked about
16 Secur.

17 Q. Okay. So you intend to give opinions
18 about TVT Secur?

19 A. Well, I'm going to answer your
20 questions.

21 Q. How about Abbrevo?

22 A. Never used Abbrevo.

23 Q. So you would not be offering opinions on
24 Abbrevo?

1 MR. MORIARTY: Well, you said all of
2 the retropubics. TVT retropubic or classic,
3 correct?

4 THE WITNESS: Yeah. I mean
5 the Abbrevio --

6 MR. MORIARTY: TVT-O, TVT-S and any
7 others?

8 THE WITNESS: No. The Abbrevio and the
9 Exact, as you know, are essentially TVTs with
10 just a shortening of the --

11 BY MS. THOMPSON:

12 Q. I agree. I just wanted to make sure I
13 had the products so I know what.

14 So TVT, because I think Mr. Moriarty
15 told me earlier you were probably not testifying
16 about TVT Secur. So, TVT retropubic, all
17 varieties, TVT-O but not Abbrevio and TVT Secur?

18 A. Yes, fine.

19 MS. THOMPSON: I got it.

20 THE WITNESS: But again you call the
21 shots. You ask the questions.

22 MR. MORIARTY: Let's go off the
23 record. We don't need to do this on the
24 record.

1 MS. THOMPSON: No, we don't.

2 (At 12:36 p.m. the deposition was
3 concluded.)

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PAGE LINE CHANGE

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1 ACKNOWLEDGMENT OF DEPONENT

2

3 I, _____, do

4 hereby certify that I have read the foregoing
5 pages, and that the same is a correct transcription
6 of the answers given by me to the questions therein
7 propounded, except for the corrections or changes
8 in form or substance, if any, noted in the attached
9 Errata Sheet.

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11

12 GREGORY BALES, M.D.

DATE

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